APARTMENT
VIDEO DOOR PHONE STATIONS

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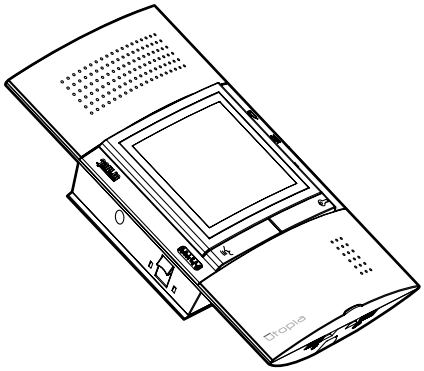
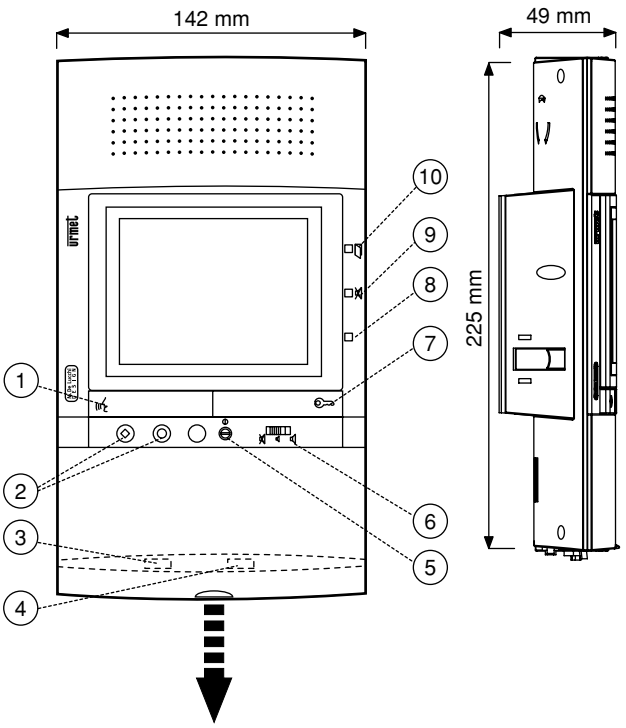
UTOPIA FREE-HANDS COLOUR VIDEO DOOR PHONE



The Utopia video door phone is a colour device with an elegant, revolutionary style and a particularly slim profile designed by Studio De Lucchi.
The most outstanding feature of this video door phone is that it is a free-hands model without handset.
Communication is established by pressing the button and closed when the button is released.
Utopia free-hands was designed to be installed in two different ways: wall-mounted without the need for masonry work, or flush-mounted to reduce the protrusion from the wall to only 16mm.
Utopia has two sets of auxiliary buttons in addition to colour, brightness and contrast.
Three indicator LEDs are provided for more simple and immediate use. These indicate open door, mute function and audio on conditions.
The video door phone can be used in all coax video door phone systems using the specific brackets.

The vide door phone is available in the following versions:
- grey colour **Ref. 1703/2**
- white colour **Ref. 1703/37**



1) Audio button
2) Auxiliary buttons
3) Brightness adjustment control
4) Colour adjustment control
5) Contrast adjustment control
6) Call volume control
7) Open door button
8) Green audio on LED
9) Green mute LED
10) Red door open LED

SPECIFICATIONS

The main features of the video door phone are:
- Flat 4" TFT backlit colour module.
- Call speaker separate from conversation speaker.
- Adjustable call volume: when the call volume selector is in "MUTE" position, the corresponding LED lights up to indicate that the call tone has been inhibited. The LED is visible also when the front panel is closed (an additional wire is needed in the column for this function).
- Adjustable colour and brightness of the picture by means of a slider.
- Adjustable contrast by means of a trimmer positioned under the sliding front panel.
- Two additional buttons (◇, ◯) for activating, for example, secondary door locks, staircase lights, switching the monitor on, etc.
- Door opener button: simply press the button to operate the door lock (); the button will remain lit as long as the picture appears on the video door phone.
- Audio button: the green light in the button will stay as long as the display is on; when the button is pressed, the green indicator LED will light up and audio conversation is established.
- Open door indicator: a red LED lights up when the door is open if the system is set up for this function (sensor installed).
- Video standard automatic selection according to the input signal frequency.

TECHNICAL FEATURES

Power voltage:		**16 ÷ 18,5Vdc**
Consumption:	Working:	**0,36A max**
	Stand-by:	**0A**
Working power:		**max 6,5W**
CCIR Version	Vertical frequency:	**50Hz ± 2Hz**
	Horizontal frequency:	**15625 ± 300Hz**
EIA Version	Vertical frequency:	**60Hz ± 2Hz**
	Horizontal frequency:	**15734 ± 300Hz**
Video signal:		**1Vpp 75Ω nominal**
		1Vpp -6dB minimum
LCD:		**4" backlit**
Screen size:		**81 x 59mm**
Resolution:		**480H x 234V pixel**
Colour system:		**PAL**
Switch-on delay:		**4 sec. max**
Transmitting capsule:		**electret microphone**
Receiving capsule:		**speaker 45Ω**
Button break current (◇, ◯):		**0,5A @ 30Vdc**
Operating temperature range:		**-5° ÷ +45°C**
Max. humidity:		**90% UR**

BRACKET Ref. 1703/91

The Utopia video door phone is provided without fastening bracket. The bracket must be purchased separately:

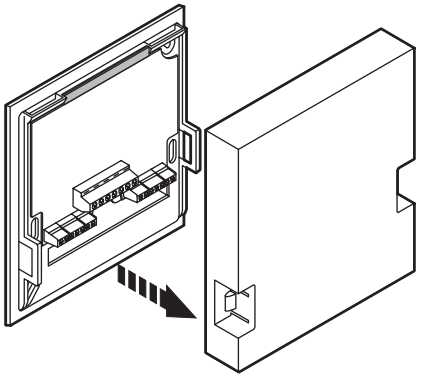
BRACKET TERMINAL BOARD FOR COAX SYSTEMS

R3	Silent video on (video only)
CA	Call signal
2	Microphone signal
1	Speaker signal
6, 10	Power earth
9	Door opener control
X2, X1	Service button terminals ◯
Y2, Y1	Service button terminals ◇
+	Indicator LED power positive
AP	'Door open' LED control input
RD	Secondary video door phone power positive
R2	Video power positive
V3	Composite video signal
V5	Video signal earth
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
R1, R1	Video power negative

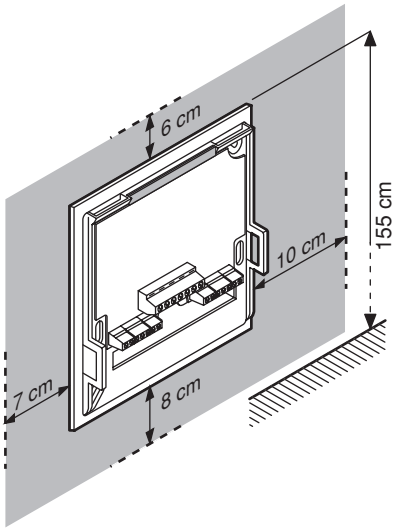
Terminals 6 and 10 are short-circuited together and cannot be separated.

WALL-MOUNTED VERSION INSTALLATION

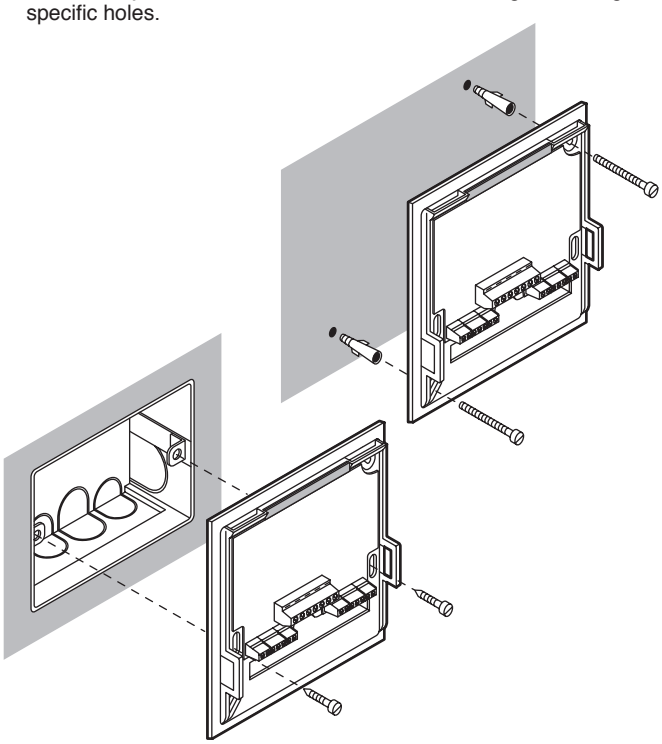
- Remove bracket protection.



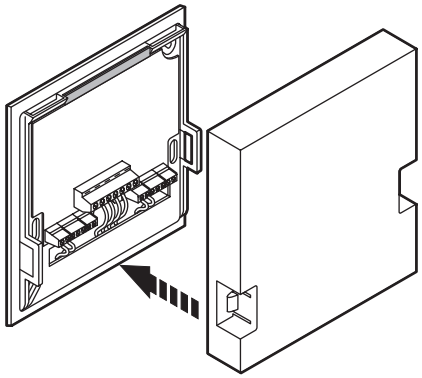
- Arrange bracket on wall considering height from ground and side clearance.



- Fasten the bracket to the wall using the bolts provided.
- Alternatively fasten the bracket to a flush-mounting box using the specific holes.

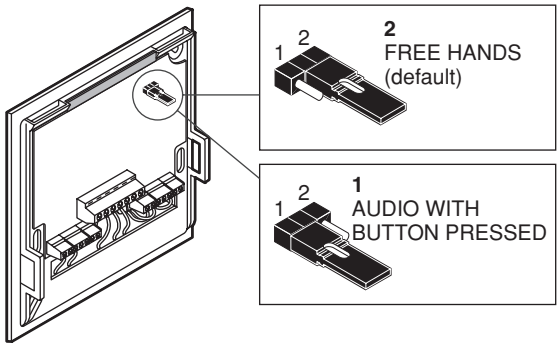


- Arrange wiring and refit the clip-on cover on the bracket. Remove the cover only before fitting the Utopia video door phone on the bracket.

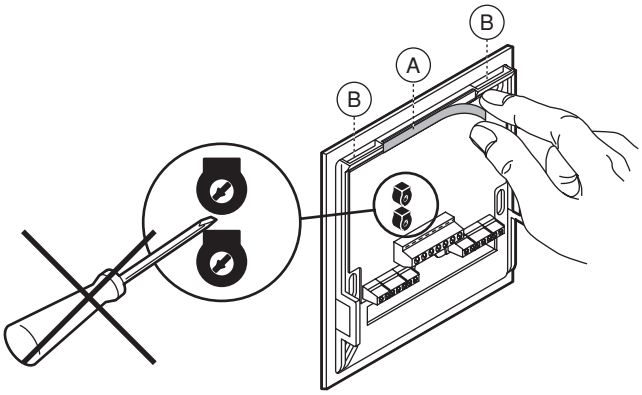


To exclude the 'free-hands' function: *move jumper J1 from position 2 to position 1.*

Hold the button pressed to establish the audio connection.

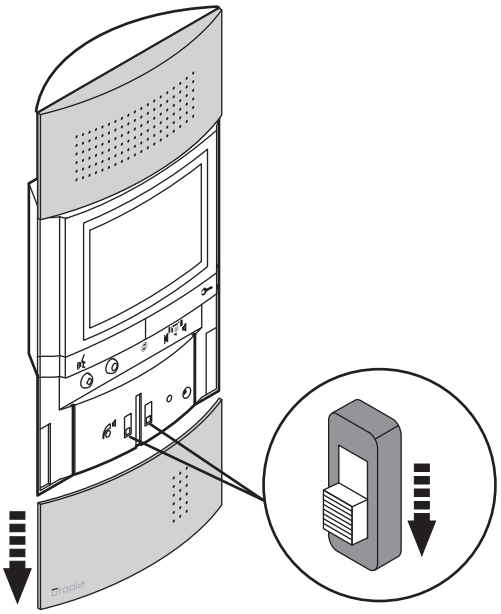


- Remove the protective cover from the bracket.
- Remove the film (A) protecting the terminals.
  IMPORTANT: THE VIDEO DOOR PHONE WILL NOT WORK IF THE FILM IS NOT REMOVED.



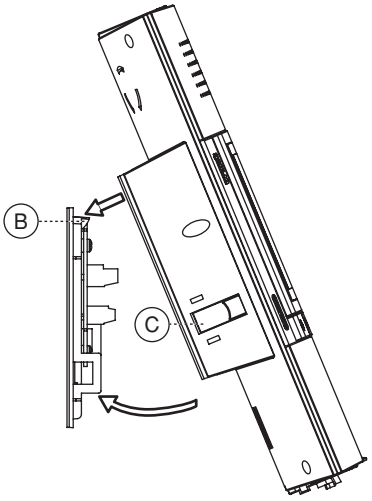
Do not change the trimmer default setting.

- Remove the lower sliding protective covers.
- Check the position of the switches, as shown in the figure:



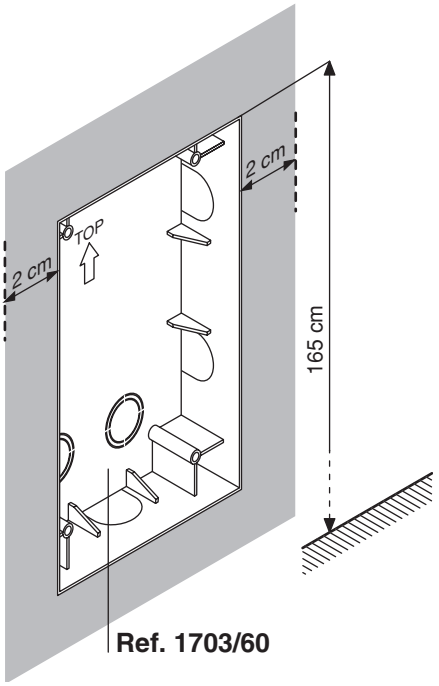
- Fit the Utopia video door phone on the bracket as follows:
  1. Fasten the video door phone to the hooks B on the upper side of the bracket.
  2. Turn the video door phone downwards.
  3. Shut the video door phone on the bracket and ensure that fastening lever C is blocked.

Press lever C and reverse the sequence to remove the video door phone.

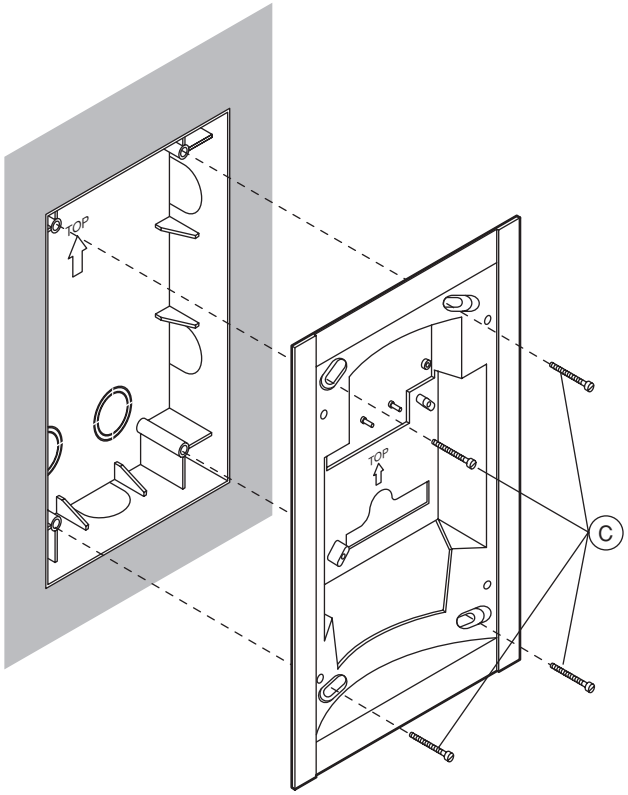


FLUSH-MOUNTED VERSION INSTALLATION

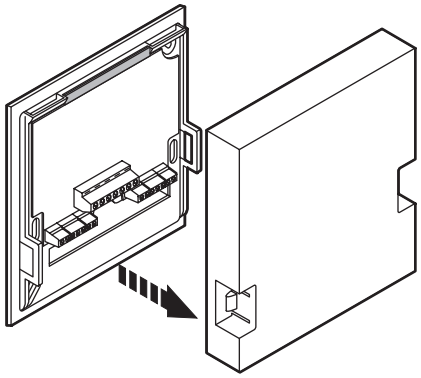
- Fit the **Ref.1703/60** flush-mounting box at the recommended height from the floor.



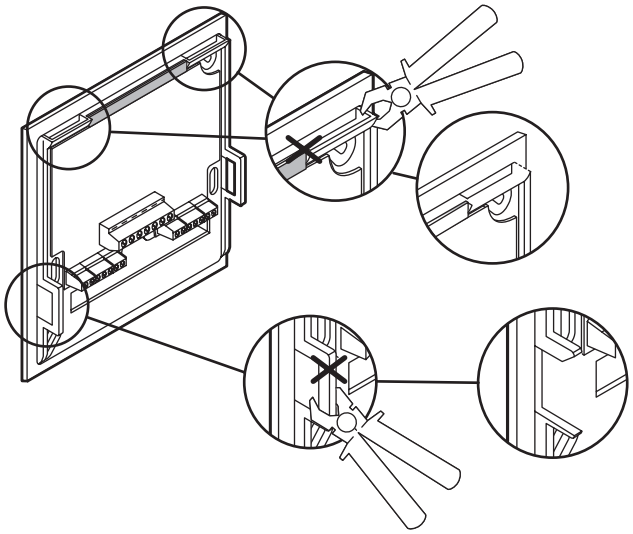
- Fit the frame inside the box and adjust correct perpendicularity.



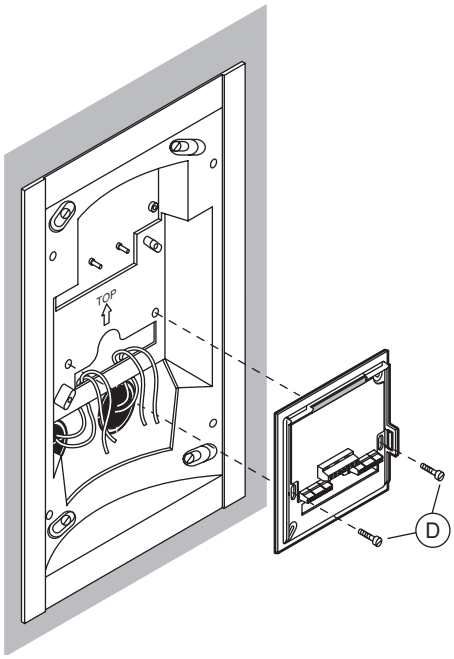
- Remove bracket protection.



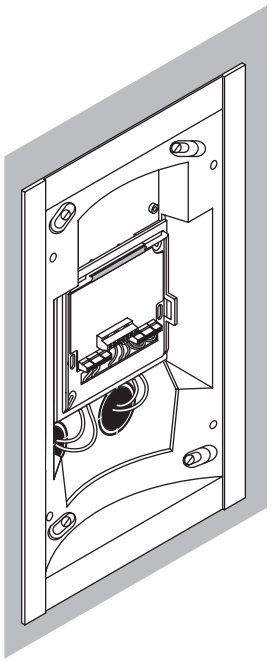
- Remove the three fastening teeth from the bracket.



- Fasten the bracket to the frame.

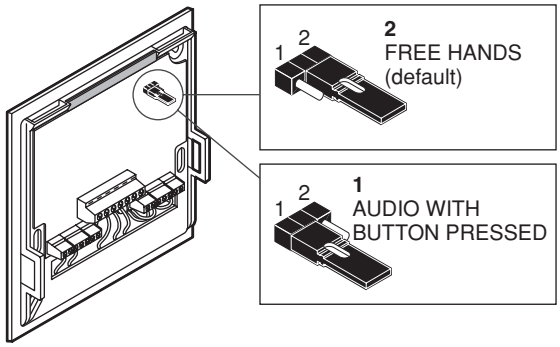


- Arrange wiring.

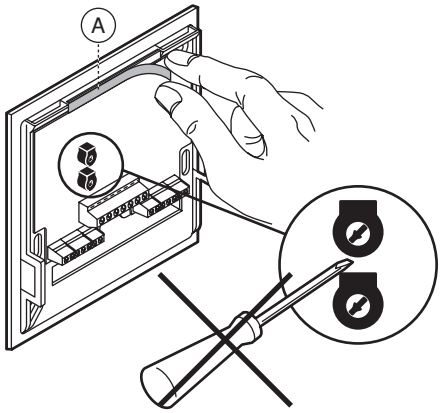


To exclude the 'free-hands' function: *move jumper J1 from position 2 to position 1.*

Hold the button pressed to establish the audio connection.

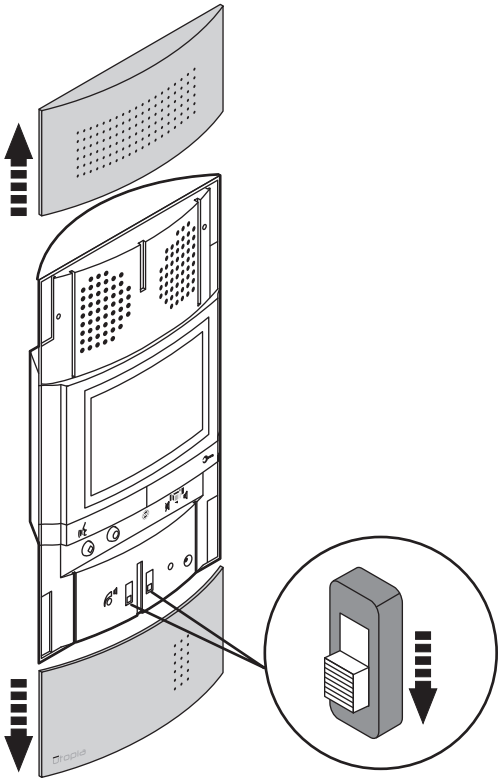


- Remove the film (A) protecting the terminals.
  IMPORTANT: THE MONITOR WILL NOT WORK IF THE FILM IS NOT REMOVED.

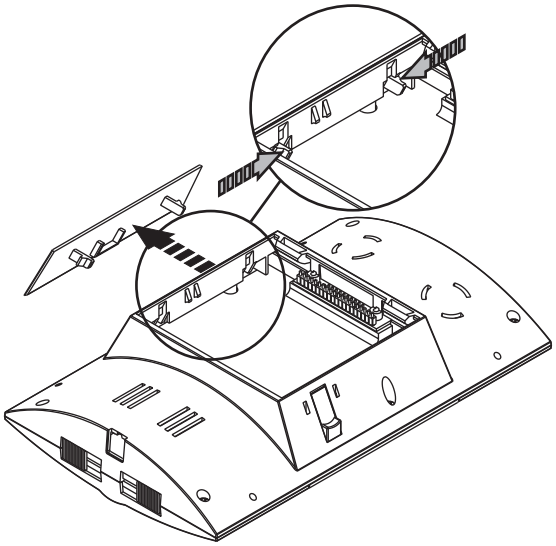


Do not change the trimmer default setting.

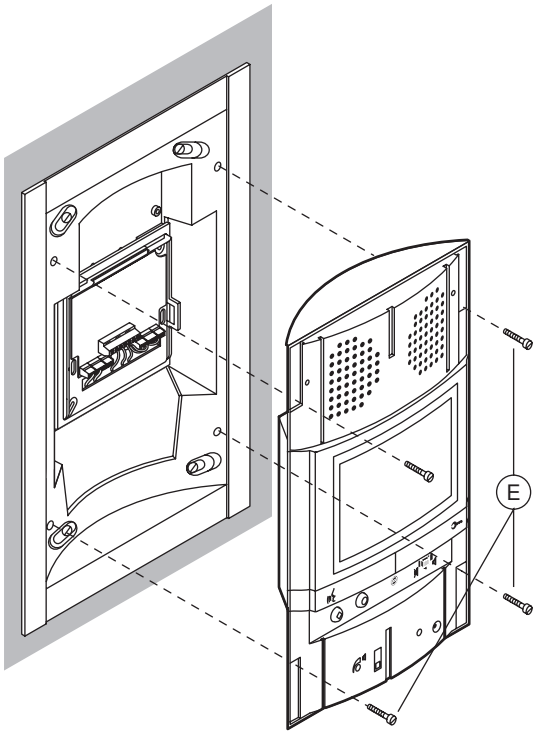
- Remove the sliding protective covers.
- Check the position of the switches, as shown in the figure:



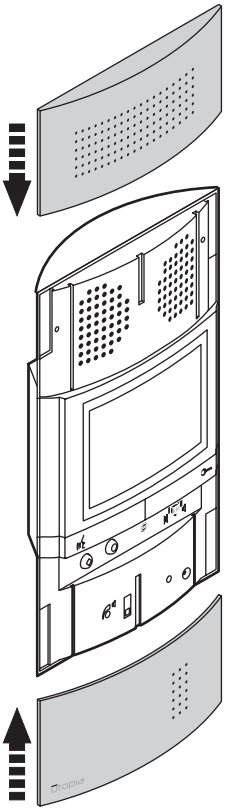
Before you put the video door phone Ref. 1703/37 on the bracket remove the lateral cover as shown below.



- Fasten the video door phone to the frame.



- Refit the sliding protective covers.

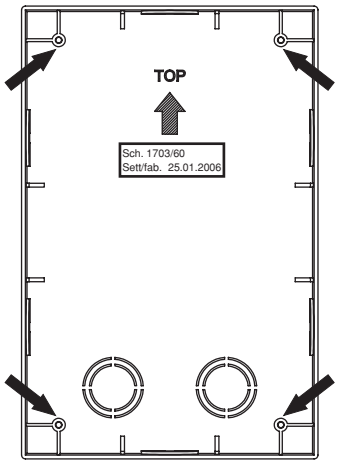


INSTALLATION ON PLASTERBOARD WALLS

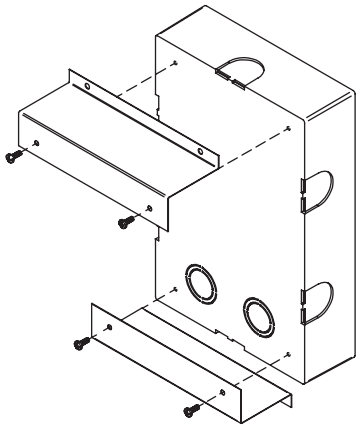
The specific 1703/61 kit is required to install Utopia free-hands video door phone on plasterboard walls.
The kit consists of a set of backing fasteners for 12 mm and 24 mm thick walls, adapted brackets and screws needed for installation.

Proceed as follows:

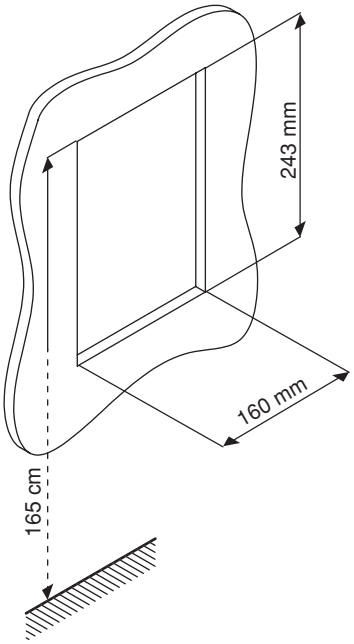
- Drill box Ref. 1703/60 with a Ø 2.2mm bit to form the through holes shown in the figure below.



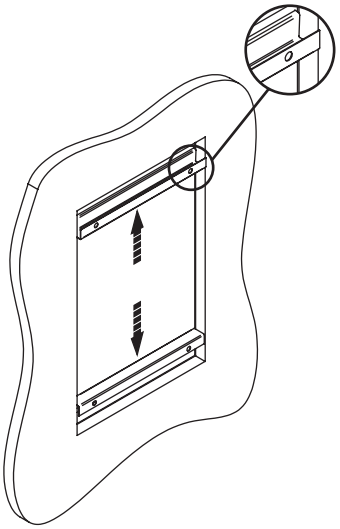
- Fasten the adapter brackets of the box with the 3.5 x 9.5mm screws.



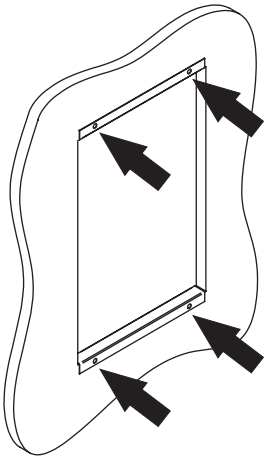
- Break into the plasterboard wall as shown the drawing below.



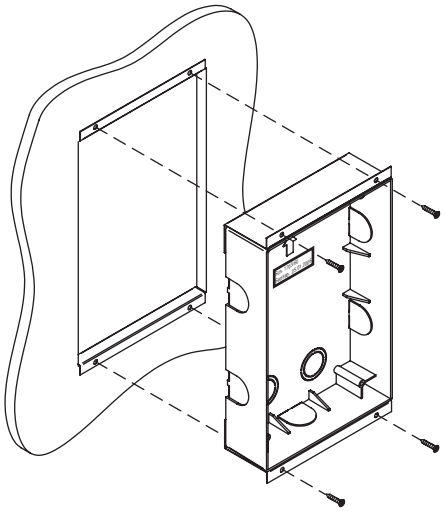
- Fit the backing fasteners in the hole.



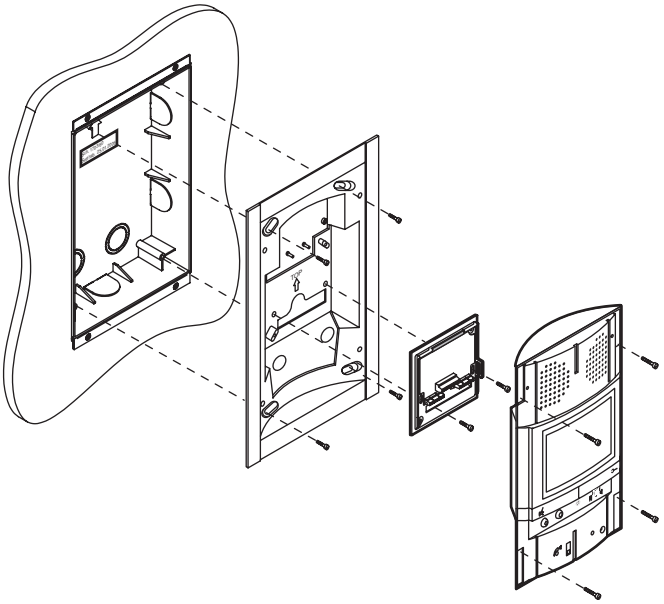
- Drill the wall at the holes on the backing fasteners with a Ø 2.2mm bit.



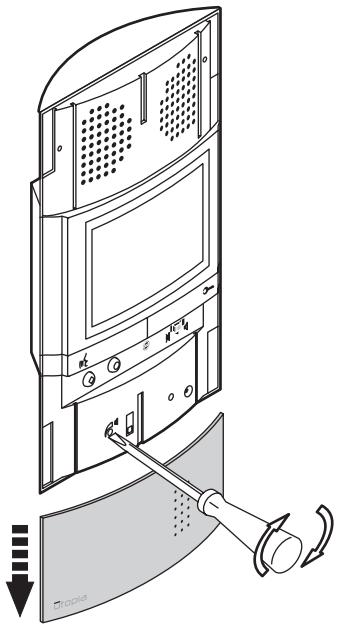
- Fix the box to the wall using 2.9 x 32mm screws.



- Follow the instructions shown in the paragraph “Flush-mounting installation” to complete the installation.



VOLUME ADJUSTMENT



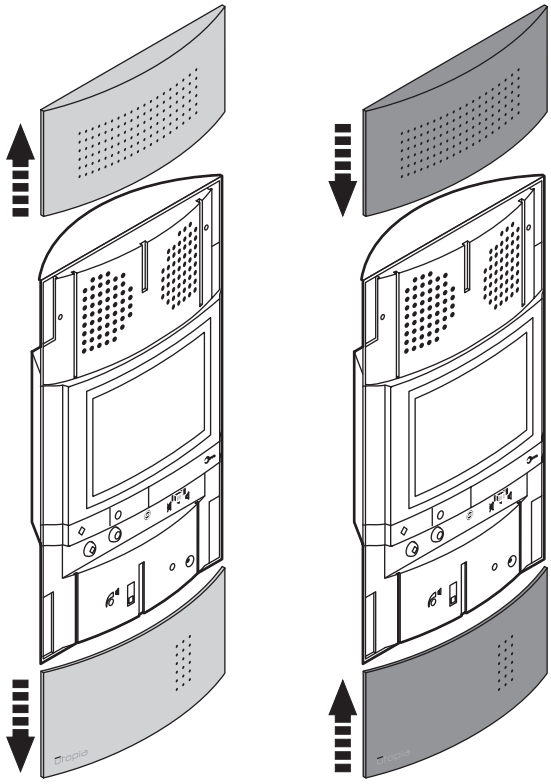
Volume is calibrated to optimal values during production. Change the settings when needed only.

ACCESSORIES FOR UTOPIA VIDEO DOOR PHONES

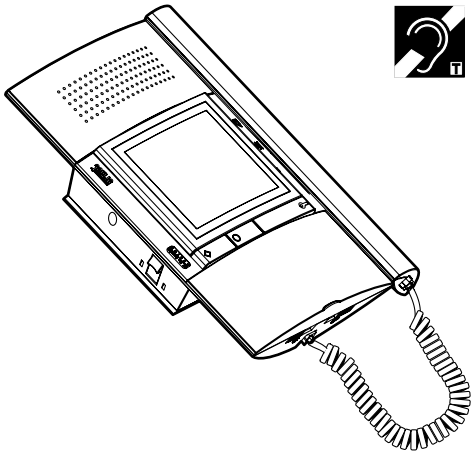
The video door phone can be customised by replacing the front flaps with the following models:

- Yellow **Ref. 1703/51**
- Green **Ref. 1703/52**
- Anthracite black **Ref. 1703/53**

Replace by removing the sliding protection flaps.
Refit the protective flaps.



UTOPIA COLOUR VIDEO DOOR PHONE Ref. 1703/17

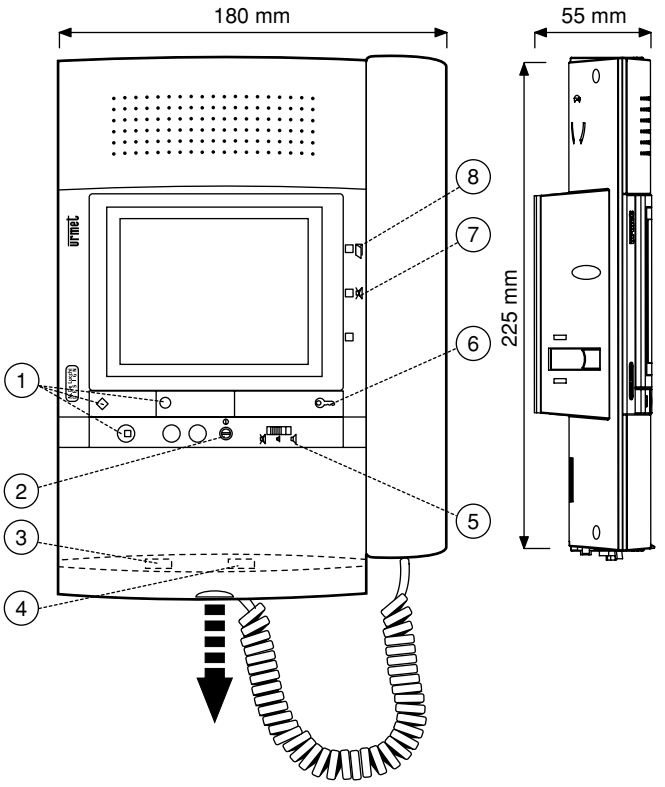


The Utopia video door phone is a colour device with an elegant, revolutionary style and a particularly slim profile (protruding only 55 millimetres from the wall) designed by Studio De Lucchi.
Some settings are arranged under the front sliding cover to make the design more streamline and convenient.
Standard controls of Utopia, in addition to colour, brightness and contrast, include three auxiliary buttons, door open LED and mute on LED.
The video door phone is easy to install because no masonry work is needed and all connections are made to the bracket on which the video door phone will eventually be fastened. The video door phone can be used both in coax or 5-wire systems using the specific brackets. The handset is connected simply by means of a telephone plug.

The video door phone Ref. 1703/17 is set up to a speaker capable interfacing with hearing aids by means of the “T” function.

SPECIFICATIONS

The main features of the video door phone are:
- Flat 4” TFT backlit colour module
- Call speaker separate from handset
- Adjustable call volume: when the call volume selector is in “MUTE” (🔇) position, the corresponding LED lights up to indicate that the call tone has been inhibited. The LED is visible also when the front panel is closed (an additional wire is needed in the column for this function).
- Adjustable colour and brightness of the picture by means of a slider.
- Adjustable contrast by means of a trimmer positioned under the sliding front panel.
- Three additional buttons (◇, ◯ and □) for activating, for example, secondary door locks, staircase lights, switching the monitor on, etc.
- Door opener button: simply press the button to operate the door lock (🔑); the button will remain lit as long as the picture appears on the video door phone.
- Open door indicator: a red LED lights up when the door is open if the system is set up for this function.
- Video standard automatic selection according to the input signal frequency.



1) Auxiliary buttons
2) Contrast adjustment trimmer
3) Brightness adjustment trimmer
4) Colour adjustment trimmer
5) Call tone adjustment trimmer
6) Door opener button
7) Mute function led
8) Open door led

TECHNICAL FEAUTURES

Power voltage:		**16 ÷ 18,5Vdc**
Consumption:	Working:	**0,36A max**
	Stand-by:	**0A**
Working power:		**6,5W max**
CCIR Version	Vertical frequency:	**50Hz ± 2Hz**
	Horizontal frequency:	**15625 ± 300Hz**
EIA Version	Vertical frequency:	**60Hz ± 2Hz**
	Horizontal frequency:	**15734 ± 300Hz**
Video signal:		**1Vpp 75Ω nominal**
		1Vpp -6dB minimum
LCD:		**4” backlit**
Screen size:		**81 x 59mm**
Resolution:		**380H x 250V pixel**
Colour system:		**PAL**
Switch-on delay:		**4 sec. max**
Transmitting capsule:		**electret microphone**
Receiving capsule:		**speaker 45Ω**
Button break current (◇, ◯):		**0,5A @ 30Vdc**
(Electronic call to max. 2 loudspeaker)		
Operating temperature range:		**-5° ÷ +50°C**
Max. humidity:		**90% UR**

BRACKET

The Utopia video door phone is provided without fastening bracket.
The bracket must be purchased separately according to the type of system being installed:

- Bracket for 5-wire system **Ref. 1703/955**
- Bracket for coax system **Ref. 1703/90**

The derivation of video door phone can not be in/out.

BRACKET TERMINAL BOARD FOR 5-WIRE SYSTEMS Ref. 1703/955

Y1	Service button terminals ◇
Y2	
X2	Service button terminals ◯
X1	
CA1	Floor call signal
2	Voice for door phone intercom
CA	Call signal
G	Monitor silence auto-on (video only)
B	Differential video signal positive
A	Differential video signal negative
Z1	Service button terminals □
Z2	
AP	'Door open' LED control input
+	Indicator LED power positive

R1	Video door phone power negative
R1	
R2	Video door phone power positive
RD	Secondary video door phone power positive

BRACKET TERMINAL BOARD FOR COAX SYSTEMS Ref. 1703/90

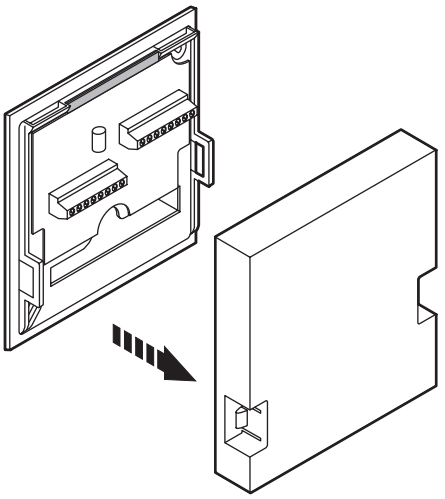
R3	Silent video on (video only)
CA	Call signal
2	Microphone signal
1	Speaker signal
6	Power earth
10	
9	Door opener control
X2	Service button terminals ◯
X1	
Y2	Service button terminals ◇
Y1	
Z1	Service button terminals □
Z2	
+	Indicator LED power positive
AP	'Door open' LED control input

RD	Secondary video door phone power positive
R2	Video power positive
V3	Composite video signal
V5	Video signal earth
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
R1	Video power negative
R1	

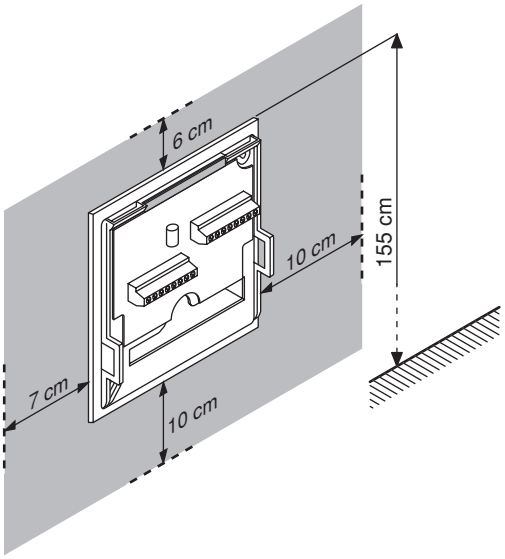
Cut the P1 jumper to use this bracket in intercom systems. In intercom system the diode is not necessary.

INSTALLATION

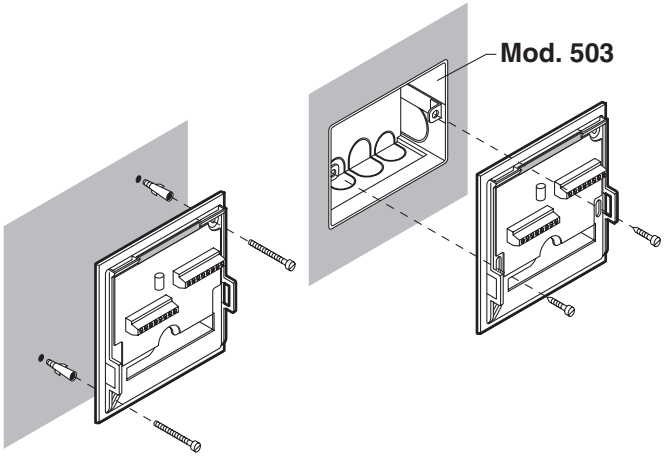
- Remove bracket protection.



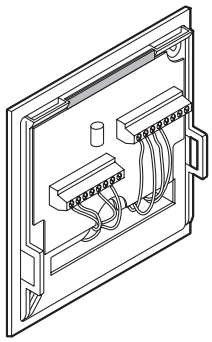
- Arrange the conduit so that it ends in correspondence with the wire opening of the bracket, considering the height from the floor and the side clearance requirements shown in the figure.



- Fasten the bracket to the wall using the screws and bolts provided or alternatively using a flush mounting box 503 and specific holes.

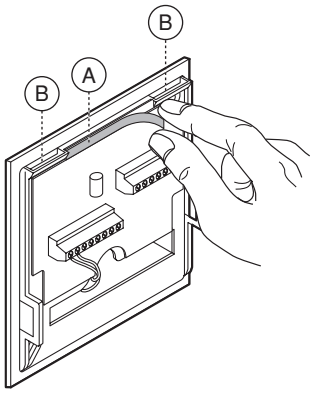


- Arrange wiring.

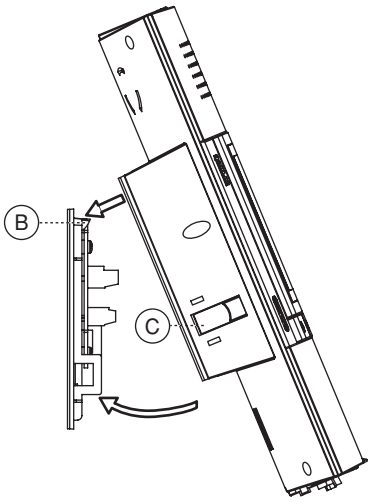


It is advisable to refit the protective cover if the video door phone is not immediately installed on the bracket.

- Remove the film (A) protecting the terminals.



- Fasten the monitor to the hooks B on the upper side of the bracket and turn the monitor downwards.
- Shut the monitor on the bracket and ensure that fastening lever C is blocked.



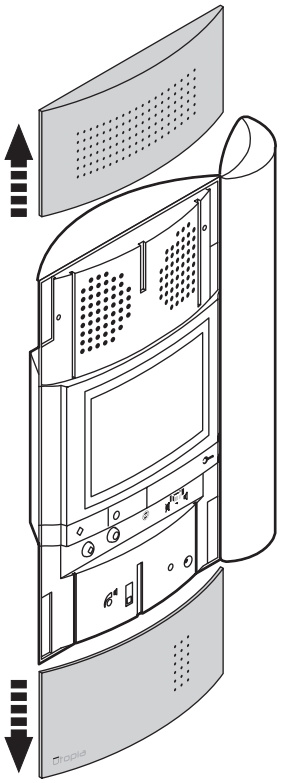
- Press lever C and reverse the sequence to remove the monitor.

ACCESSORIES FOR UTOPIA VIDEO DOOR PHONES

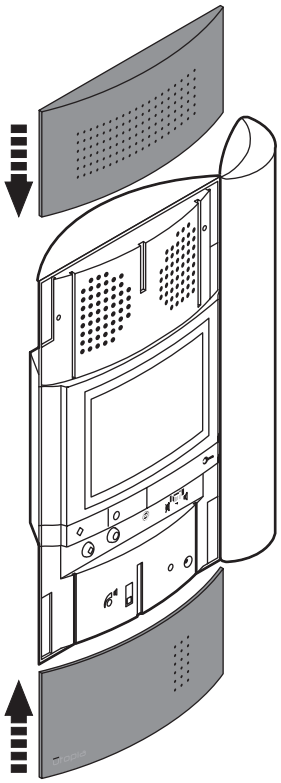
The video door phone can be customised by replacing the front flaps with the following models:

- Yellow **Ref. 1703/51**
- Green **Ref. 1703/52**
- Anthracite black **Ref. 1703/53**

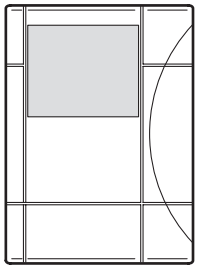
Replace by removing the sliding protection flaps.



Refit the protective flaps.



SCAITEL BLACK AND WHITE VIDEO MODULE



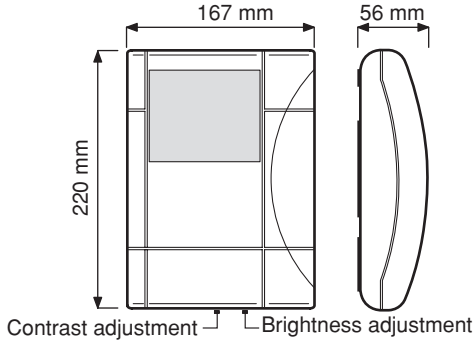
Mod. 1732 video module is a monitor whose most important characteristic is that of being used in combination with other Scaitel devices which present the same design.
The device can be used in combination with other Scaitel devices (e.g. door phone or picture memory module) to create a basic video door phone (video module with door phone) or complex device (video module with door phone and picture memory).
The video module implements both CCIR and EIA transmission standards:

- CCIR version (50Hz) **Ref. 1732/1**
- EIA version (60Hz) **Ref. 1732/18**

Note: *suitable cameras must be fitted in the door unit according to the transmission standard of the monitor.*

SPECIFICATIONS

Available in matte white plastic (ABS) only, the device is equipped with two potentiometers for adjusting picture brightness (☼) and contrast (◑).

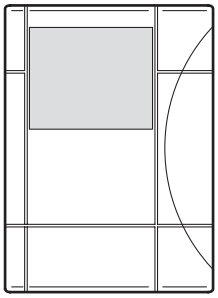


The video module can be installed next to other Scaitel modules by means of brackets provided and fastened to the wall by means of a bracket with connector and terminal board.
The monitor (basic or with add-on modules) can be table-mounted using a specific transformation kit.

TECHNICAL SPECIFICATIONS

Power:		**16 ÷ 18.5Vdc**
Consumption:	Working:	**0.35A max**
	Stand-by:	**0mA**
Working power:		**6.5W max**
CCIR version:	Vertical frequency:	**50Hz ± 2Hz**
	Horizontal frequency:	**15625 ± 400Hz**
EIA version:	Vertical frequency:	**60Hz ± 2Hz**
	Horizontal frequency:	**15734 ± 400Hz**
Resolution:		**400 lines in middle of screen**
Video input:		**1Vpp-75Ohm nominal 1Vpp -6dB min**
Kinescope:		**4" flat**
Phosphorous:		**P45**
Screen size:		**81 x 59mm**
Geometric distortion:		**vertical 8% max - horizontal 12% max**
Brightness:		**170cd/m² max. setting**
Working temperature range:		**- 5 + 45°C**
Storage temperature range:		**-20 + 60°C**
Humidity:		**90% RH max**

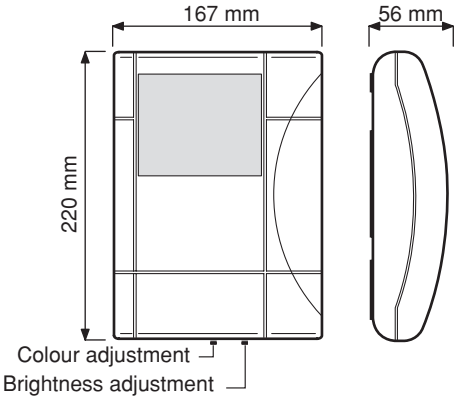
SCAITEL COLOUR VIDEO MODULE Ref. 1732/41



Like the black/white module, the most important feature of this video module is that of being used in combination with other SCAITEL devices which present the same design.
The device can be used in combination with other Scaitel devices (e.g. door phone or picture memory module) to create a basic video door phone (video module with door phone) or complex device (video module with door phone and picture memory).

SPECIFICATIONS

Available in matte white plastic (ABS) only, the device is equipped with two potentiometers for adjusting picture brightness (☼) and contrast (◑).



The video module can be installed next to other Scaitel modules by means of brackets provided and fastened to the wall by means of a bracket with connector and terminal board.

The brackets can be used indifferently on all black and white and colour videos.

The monitor (basic or with add-on modules) can be table-mounted using a specific transformation kit.

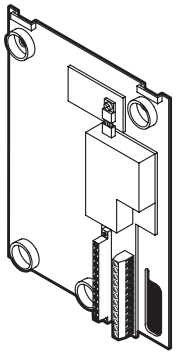
Refer to the “Indoor video door phone units” section for the respective product sheets and installation methods.

The video module is provided with video standard automatic selection according to the input signal frequency.

TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 18.5Vdc**
Consumption:	Working:	**0.35A max**
	Stand-by:	**0mA**
Working power:		**6.5W max**
CCIR version:	Vertical frequency:	**50Hz ± 2Hz**
	Horizontal frequency:	**15625 ± 400Hz**
EIA version:	Vertical frequency:	**60Hz ± 2Hz**
	Horizontal frequency:	**15734 ± 400Hz**
Resolution:		**480H x 234V**
Video signal:		**1Vpp-75Ohm nominal**
		1Vpp -6dB min
Kinescope:		**4” TFT**
Colour system:		**PAL**
Screen size:		**81 x 59mm**
Working temperature range:		**- 5 + 45°C**
Storage temperature range:		**-20 + 60°C**
Humidity:		**90% RH max**

VIDEO MODULE BRACKET



The bracket for installing the video module must be purchased separately.
There are two types of brackets according to the system where they will be installed:

- Bracket for coax systems **Ref. 1732/91**
- Bracket for 5-wire systems **Ref. 1732/955**

BRACKET TERMINAL BOARD FOR 5-WIRE SYSTEMS Ref. 1732/955

⊘	1	Earth for door phone (*)
⊘	2	Voice for door phone (*)
⊘	CA	Call signal
⊘	R5	--
⊘	B	Differential video signal positive
⊘	A	Differential video signal negative
⊘	R1	Video door phone power negative
⊘	R2	Video door phone power positive
⊘	RD	Secondary monitor power positive
⊘	R3	Silent video on

(*) To install the video door phone in 5-wire systems, connect the Ref. 1132/35 door phone to these terminals.

BRACKET TERMINAL BOARD FOR COAX SYSTEMS Ref. 1732/91

⊘	CA	Call signal
⊘	R3	Silent video on
⊘	R1	Video power negative
⊘	R2	Video power positive
⊘	V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
⊘	V5	Video signal earth
⊘	V3	Composite video signal
⊘	RD	Secondary monitor power positive

INSTALLATION

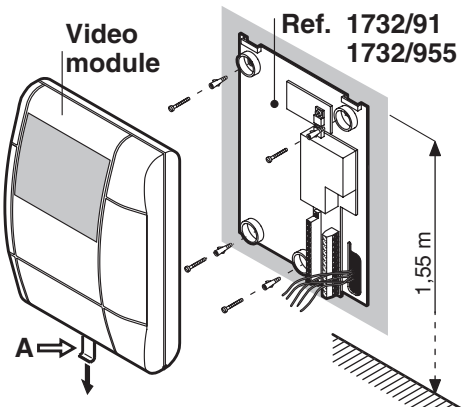
The video module, as shown, can be used separately or in combination with Scaitel door phone model or 1332 door telephone model.
The door telephone can either be installed separately or in combination with telephone interface and PABX 1/5 and 2/8 switchboards.
In all configurations, the video module must be arranged on the left and the door telephone on the right (the telephone interface and the PABX telephone switchboards, where relevant, must also be positioned immediately to the left of the door telephone).
Refer to "Telefony technical manual" for details.

WALL-MOUNTED VERSION

VIDEO MODULE

Proceed as follows to fasten the video module only:

- Arrange the duct so that it ends in correspondence with the input hole.
- Fasten the bracket to the wall at the height from the floor shown by means of bolts.
- Connect the wires to the specific terminals.
- Extract the stop bolt **A**.
- Fasten the monitor to the bracket and lock the device by pushing the bolt "**A**" inwards.



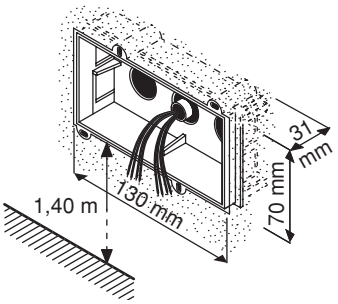
VIDEO DOOR PHONE (VIDEO + DOOR PHONE MODULE)

Two installation arrangements are possible:
with or without flush-mounting box. In any case, plate kit Ref. 1032/59 will be needed to join the devices.

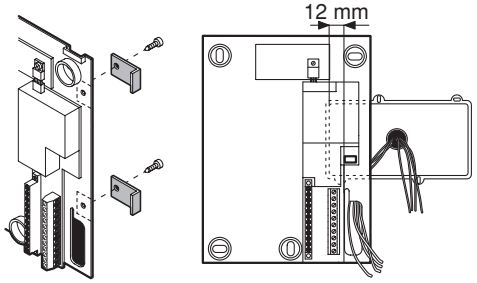
INSTALLATION WITH FLUSH-MOUNTING BOX

Proceed as follows:

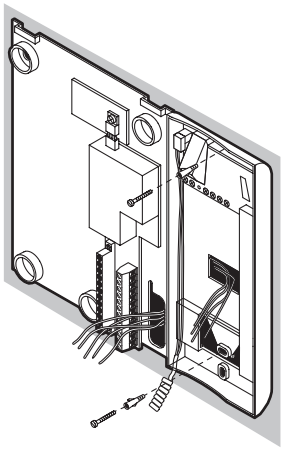
- Install the box in line with the wall at a height of 1.40 m from the floor considering that the monitor will be arranged approximately 10 cm to the left of the flush-mounting box.
- Lead all the wires out of the flush-mounting box and prepare to direct them to the respective connections of the monitor and the door phone through the corresponding holes in the bracket and the door phone base.
  The box dimension are indicative.



- Fit the two L-brackets for fitting the base of the door phone before fastening the monitor bracket to the wall.
  Fasten the monitor bracket so that the upper part of the wire input is in line with the inner wall of the box and the left part is 12mm away.



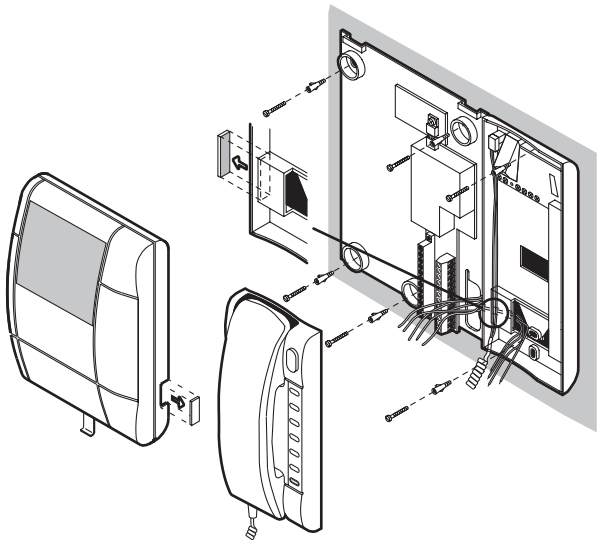
- Fasten the bracket by means of the bolts, position the door phone base on the two tabs and fasten to the wall.
- Connect the wires to the specific terminals and then fasten the video module and the door phone top.



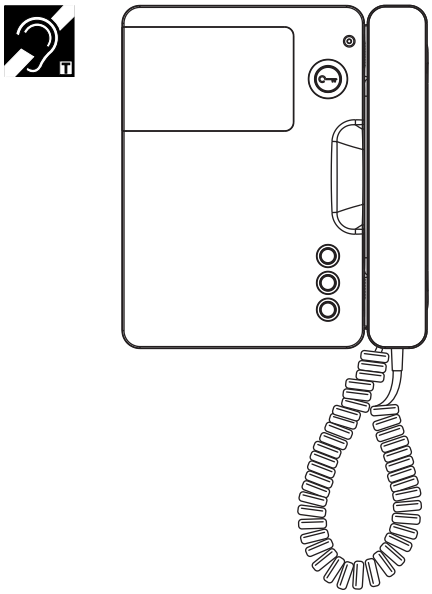
INSTALLATION WITHOUT FLUSH-MOUNTING BOX

Fit the two L-brackets for fitting the base of the door phone before fastening the monitor bracket to the wall.

- Fasten the bracket by means of the bolts, position the door phone base on the two tabs and fasten to the wall.
- Arrange the wire output in correspondence with the output hole.
- Follow the indications in the figure for interconnections between video module and door phone after cutting the areas in the top sides.
- Connect the wires to the specific terminals and then fasten the video module and the door phone top.



SIGNO BLACK AND WHITE VIDEO DOOR PHONE



Signo door phone, designed by architect Citterio, is provided with 1 blue led backlit door lock release button, 3 buttons for additional services, ring tone volume adjustment with “Mute” function. It is equipped with a special handset, that allows hard of hearing people, with a special earphone, to hear who is speaking at the push button panel.
The video door phone is easy to install because no masonry work is needed and all connections are made to the bracket on which the video door phone will eventually be fastened.

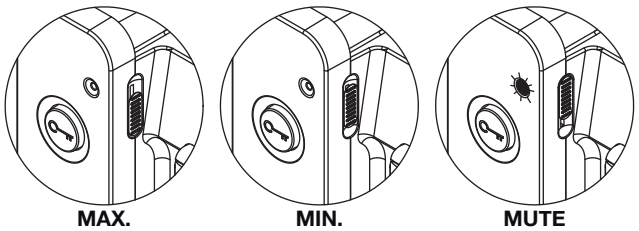
The following versions are available:

CCIR version (50Hz):	**Ref. 1740/1**
EIA version (60Hz):	**Ref. 1740/18**

A suitable camera must be fitted in the door unit according to the trasmission standard employed.

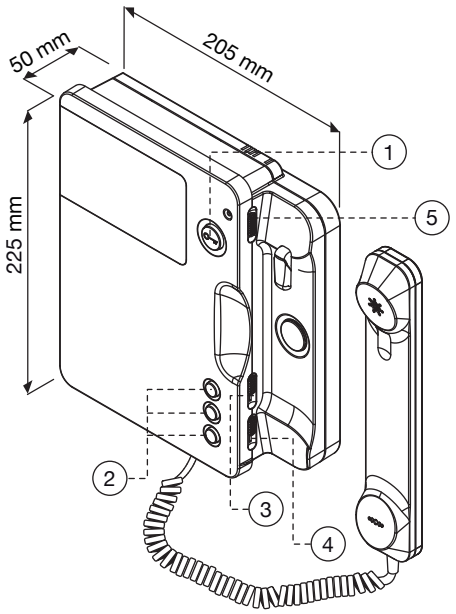
SPECIFICATIONS

The main characteristics of the video door phone are:
- Flat 4” black and white video module.
- Adjustable and mutable call volume. (Mute). When the mute function is active, the red indicator on the front panel is on.



When volume is set to “MUTE” the video door phone will not ring but the video module will light up.

- Door opener button is lit up and blue when video module is on.
- Service buttons (●, ●●, ●●) for activating, for example, supplementary electrical locks, staircase lights, monitor auto-on function, etc.
- Adjustable brightness and contrast.

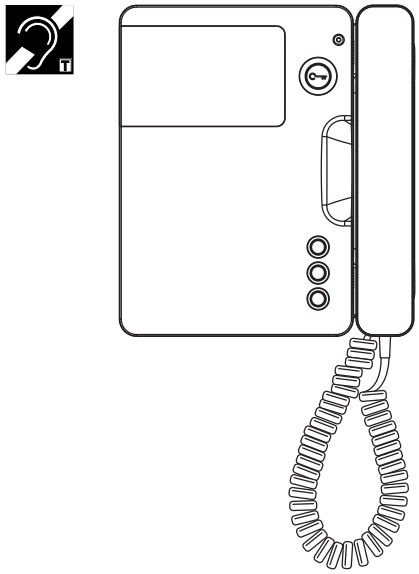


1. DOOR OPENER BUTTON
2. AUXILIARY BUTTONS
3. CONTRAST ADJUSTMENT
4. BRIGHTNESS ADJUSTMENT
5. CALL VOLUME CONTROL AND ADJUSTMENT

TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 18,5Vdc**
Consumption:	Working:	**0,35A max**
	Stand-by:	**0A**
Working power:		**6,5W max**
CCIR version	Vertical frequency:	**50Hz ± 2Hz**
	Horizontal frequency:	**15625 ± 300Hz**
EIA version	Vertical frequency:	**60Hz ± 2Hz**
	Horizontal frequency:	**15734 ± 300Hz**
Video signal:		**1Vpp 75 Ω nominal** **1Vpp -6dB minimum**
Kinescope:		**4,5” flat 13mm neck**
Phosphorous:		**P45**
Screen size:		**81 x 59mm**
Geometric distorsion:		**vertical 5% max** **horizontal 5% max** **barrel 10% max**
Brightness:		**170cd/m2 max. setting**
X-rays:		**none**
Switch-on delay:		**7 sec. max**
Transmitting capsule:		**electret microphone**
Receiving capsule:		**45 Ω speaker**
Button break current:		**0,5A @ 18Vdc**
Operating temperature range:		**-5° ÷ +50°C**
Max. humidity:		**90% RH**

SIGNO COLOUR VIDEO DOOR PHONE

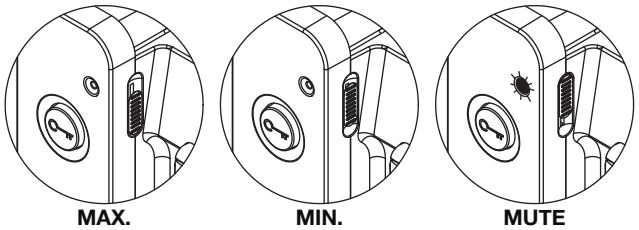


Signo video door phone, designed by architect Citterio, is a colour or black/white apartment station equipped with 1 blue led backlit door lock release button, 3 buttons for additional services, ring tone volume adjustment with “Mute” function. It is equipped with a special handset, that allows hard of hearing people, with a special earphone, to hear who is speaking at the push button panel.
The video door phone is easy to install because no masonry work is needed and all connections are made to the bracket on which the video door phone will eventually be fastened.

For a greater compatibility with furniture, the video door phone is available in the following colours:
- White Ref. 1740/40
- Anthracite grey Ref. 1740/41
- Platinum Ref. 1740/42

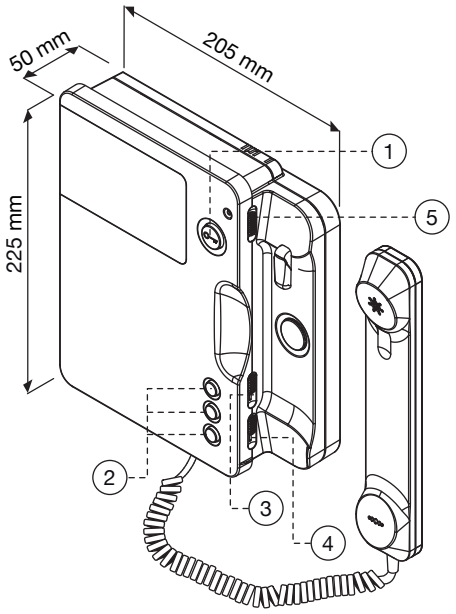
SPECIFICATIONS

The main characteristics of the video door phone are:
- Flat 4” LCD colour module.
- Adjustable and mutable call volume (Mute). When the mute function is active, the red indicator on the front panel is on.



When volume is set to “MUTE” the video door phone will not ring but the video module will light up.

- Door opener button is lit up and blue when video module is on.
- Service buttons (●, ●●, ●●) for activating, for example, supplementary electrical locks, staircase lights, monitor auto-on function, etc.
- Adjustable brightness and colour.
- Video standard automatic selection according to the input signal frequency.



1. DOOR OPENER BUTTON
2. AUXILIARY BUTTONS
3. COLOUR ADJUSTMENT
4. BRIGHTNESS ADJUSTMENT
5. CALL VOLUME CONTROL AND ADJUSTMENT

TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 18,5Vdc**
Consumption:	Working:	**0,35A max**
	Stand-by:	**0A**
Working power:		**6,5W max**
CCIR version	Vertical frequency:	**50Hz ± 2Hz**
	Horizontal frequency:	**15625 ± 300Hz**
EIA version	Vertical frequency:	**60Hz ± 2Hz**
	Horizontal frequency:	**15734 ± 300Hz**
Video signal:		**1Vpp 75 Ω nominal** **1Vpp -6dB minimum**
LCD:		**4” back-lit**
Screen size:		**81 x 59mm**
Resolution:		**380H x 250V pixel**
Colour system:		**PAL**
Switch-on delay:		**4 sec. max**
Transmitting capsule:		**electret microphone**
Receiving capsule:		**45 Ω speaker**
Button break current:		**0,5A @ 18Vdc**
Operating temperature range:		**-5° ÷ +50°C**
Max. humidity:		**90% RH**

Video standard automatic selection according to the input signal frequency.

SIGNO BRACKETS

The Signo video door phone is provided without fastening bracket; the bracket must be purchased separately according to the type of system being installed:

- Bracket for 5-wire systems **Ref. 1740/955**
- Bracket for coax systems **Ref. 1740/90**

The bracket can be used either with colour and black and white video door phone.

BRACKET TERMINAL BOARD FOR 5-WIRE SYSTEMS Ref. 1740/955

A	Differential video signal negative
R2	Video door phone power positive
RD	Secondary monitor power positive
B	Differential video signal positive
2	Voice for possible door phone intercom
G	Monitor silence auto-on (video only)
R1	Video door phone power negative
CA	Call signal
CA1	Floor call signal
X1, X2	Service button terminals ●
Y1, Y2	Service button terminals ●●
Z1, Z2	Service button terminals ●●●

BRACKET TERMINAL BOARD FOR COAX SYSTEMS Ref. 1740/90

1	Speaker signal
CA	Call signal
2	Microphone signal
6, 10	Power ground
9	Door opener control
X1, X2	Service button terminals ●
Y1, Y2	Service button terminals ●●
Z1, Z2	Service button terminals ●●●
R3	Silent video on
R1	Video power negative
R2	Video power positive
RD	Secondary monitor power positive
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
V5	Video signal earth
V3	Composite video signal

If the coaxial cable is connected in in/out mode, connect the terminal pins R1 and V5 on the bracket.

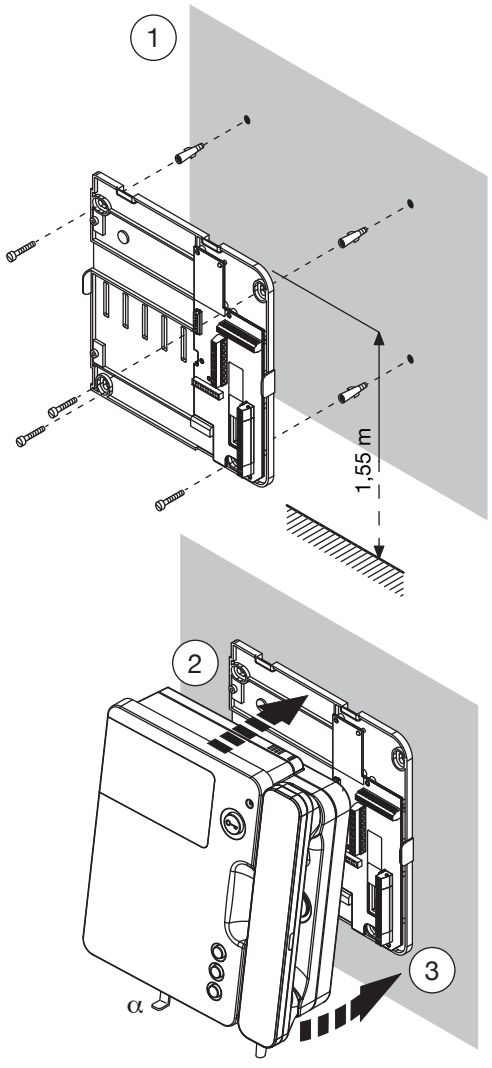
INSTALLATION

The device can be wall-mounted (on a bracket) or rested on a horizontal surface by using the specifi c tabletop stand in addition to the bracket.

WALL-MOUNTED VERSION

The video door phone can be wall mounted (using the bracket) following the steps below:

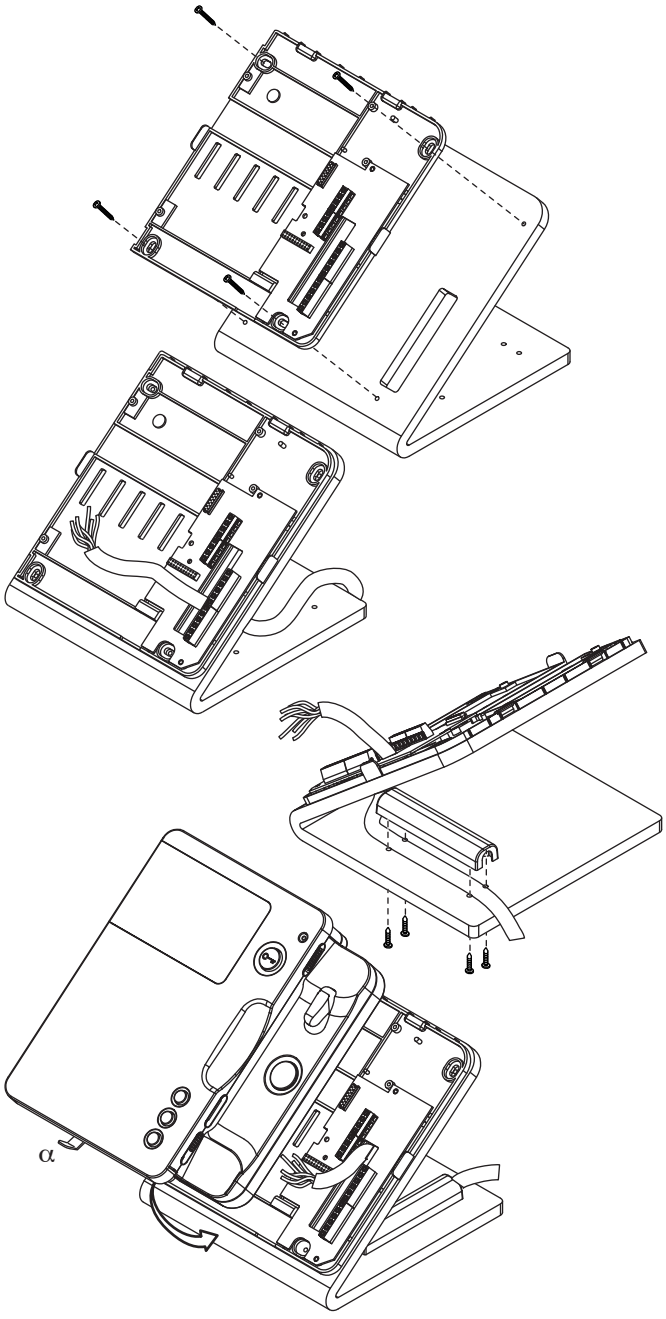
- Arrange the duct so that it ends in correspondence with one of the input holes.
- Fasten the bracket to the wall at the height from the floor shown by means of the four screws.
- Connect the wires to the specific terminals.
- Extract the retainer hook α pulling downwards.
- Fasten the monitor to the bracket as shown in the figure.
- Fasten the monitor by pushing the retainer hook α upwards.

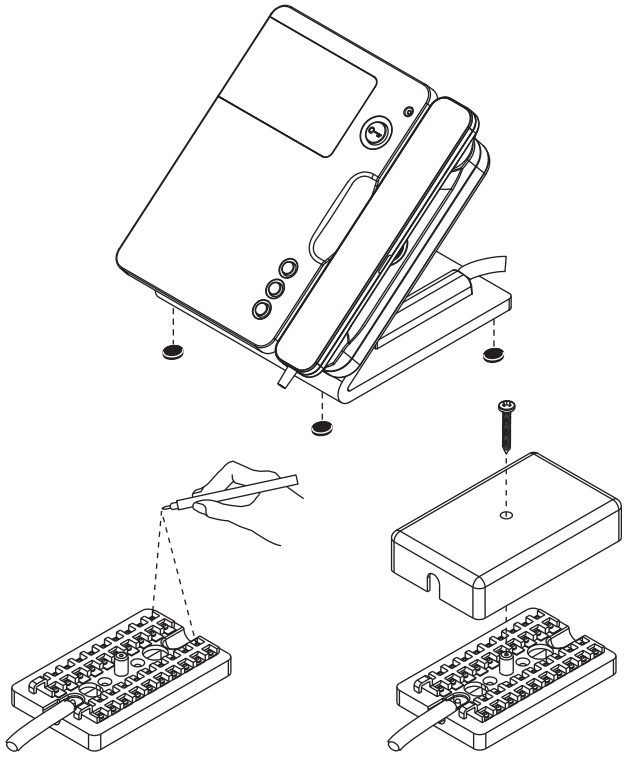


TABLETOP VERSION

Signo video door phone can be table-mounted using the specifi c kit Ref. 1740/92 containing: one tabletop stand, one socket and one cord.

Proceed as follows:
- Fix the bracket to the table-top adaptor.
- Insert in the support rear hole the cable coming from the wiring junction box and fix it with the provided jumper and screws.
- Connect the wiring junction box cables to the suitable terminal pins of the bracket.
- Pull out the stop hook α from the video door phone.
- Insert the video door phone in the bracket and lock it by pushing the hook α up.
- Mount the feet on the bottom side of the support.
- Connect the system wires to the respective terminal pins of the wiring junction box.
- Close the wiring junction box.





Write down the connection references on the wiring junction box label.

Consider the following correspondence between terminals for using the table-top kit with 1740/92 brackets in 5-wire systems

Table mountig kit Ref. 1740/92	Bracket Ref. 1740/955
R1	R1
R2	R2
V3	A
V5	B
CA/RZ	CA
R3	G
X1	X1
X2	X2
Y1	Y1
Y2	Y2
Z1	Z1
Z2	Z2
2	2

IMPORTANT: Two table-top video door phones cannot be connected in parallel

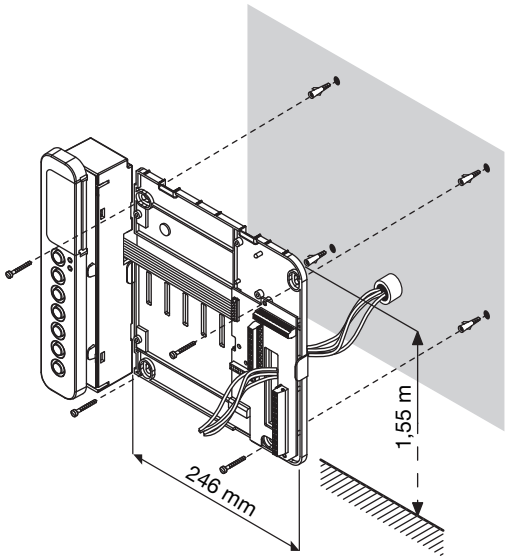
ACCESSORIES FOR SIGNO VIDEO DOOR PHONE

ADD ON Ref. 1740/86

The additional module with bracket may be purchased separately and combined to the basic video door phone unit in system with coax cable.
A switch may be used to mute the call tone and a green LED will light up to indicate this. A second LED may be used to check whether the door is open (if this function is available in the system). Six buttons may be used for intercom calls to other devices in the building.

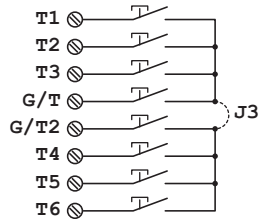
INSTALLATION

Arrange the duct so that it ends near the input hole and fasten the bracket to the wall at the height from the ground shown with the four screws.

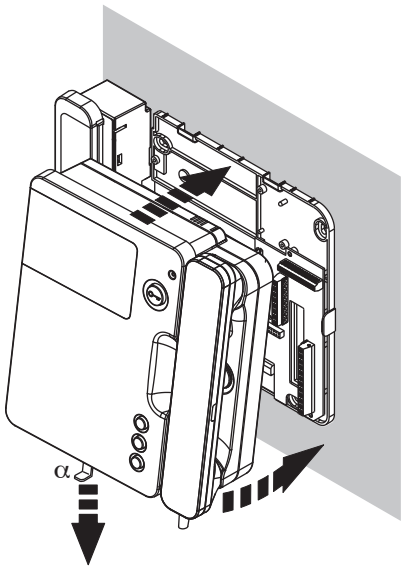


Connect the wires to the suitable terminal pins.

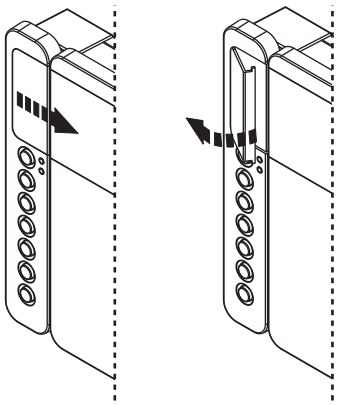
1	Speaker signal
CA	Call signal
2	Microphone signal
6, 10	Power ground 10
9	Door opener control
X1, X2	Service button terminals ●
Y1, Y2	Service button terminals ●●
Z1, Z2	Service button terminals ●●
R3	Silent video on
R1	Video power negative
R2	Video power positive
RD	Secondary monitor power positive
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
V5	Video signal earth
V3	Composite video signal
R	Door opener direct from call button (only with switch at off and presence of relay 788/52)
+	LED power positive (12Vdc)
AP	Door open control



- Extract the retainer hook α pulling downwards.



- Fasten the monitor to the bracket.
- Fasten the monitor by pushing the retainer hook α upwards.
- Rimuovere la mostrina trasparente per accedere al cartoncino indicazione nominativi.

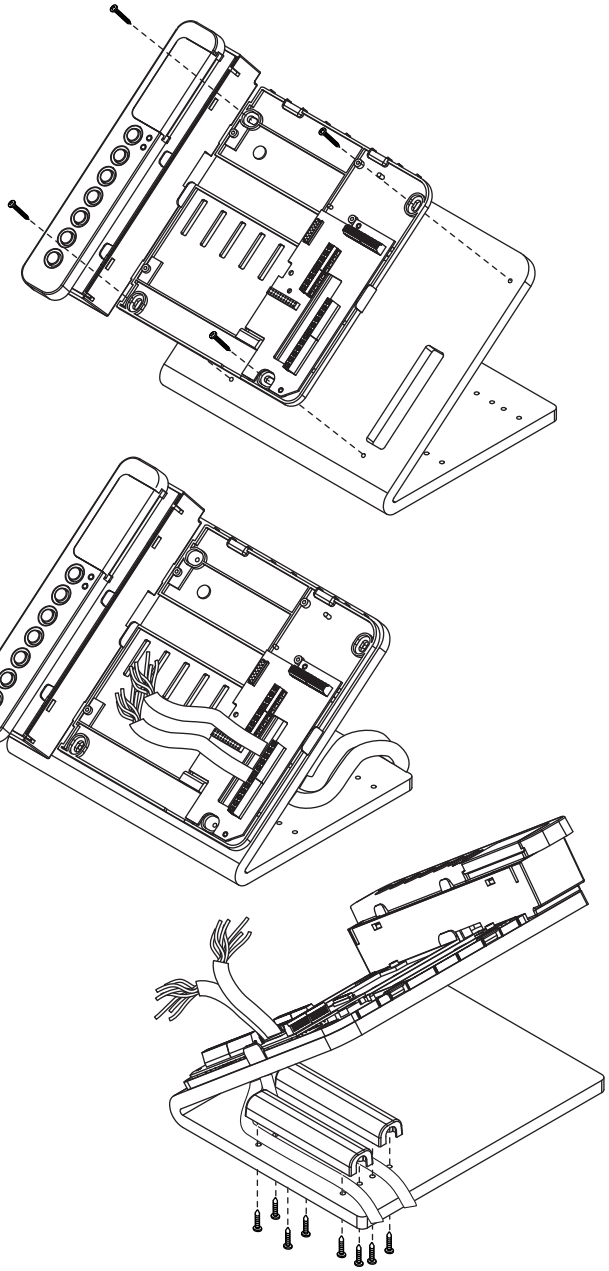


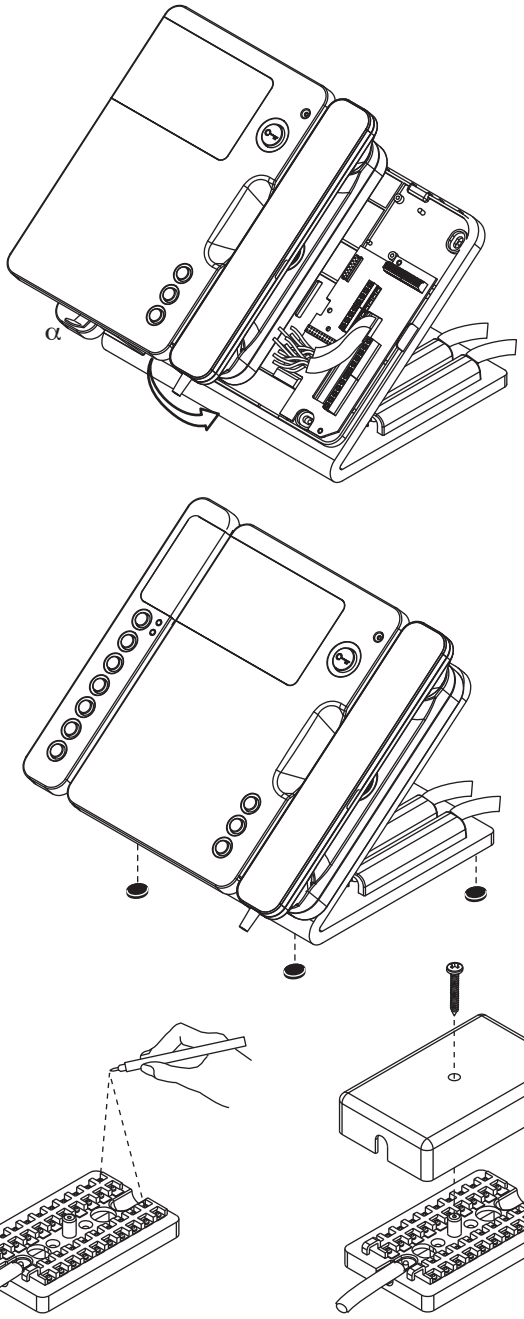
- Rimontare la mostrina trasparente.

TABLE TOP VERSION INSTALLATION

Per l'installazione del videocitofono con l'aggiuntivo tasti ad appoggio tavolo occorre acquistare l'apposito supporto Sch. 1740/93.
Proceed as follows:

- Fix the bracket to the table-top adaptor.
- Insert in the support rear hole the cable coming from the wiring junction box and fix it with the provided jumper and screws.
- Connect the wiring junction box cables to the suitable terminal pins of the bracket.
- Pull out the stop hook α from the video door phone.
- Insert the video door phone in the bracket and lock it by pushing the hook α up.
- Mount the feet on the bottom side of the support.
- Connect the system wires to the respective terminal pins of the wiring junction box.
- Close the wiring junction box.





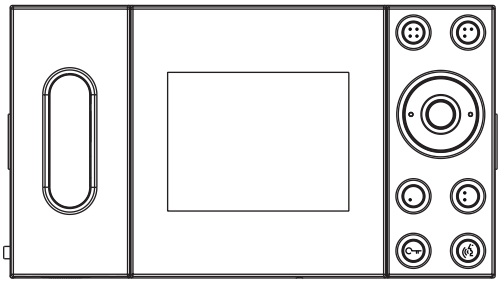
Write down the connection references on the wiring junction box label.

ACCESSORY BOARD

Signo video door phones, in addition to the accessories listed in the previous section, can be equipped with the following devices (described in the "Apartment station accessories" section).

- Additional outdoor ringer **Ref. 9854/40**
- Additional electronic call ringer **Ref. 9854/41**
- Additional three-tone ringer **Ref. 9854/42**
- 12Vca door phone electronic buzzer **Ref. 9854/52**

IMAGO HANDS-FREE COLOUR TFT 4" VIDEO DOOR PHONE Ref. 1707/1

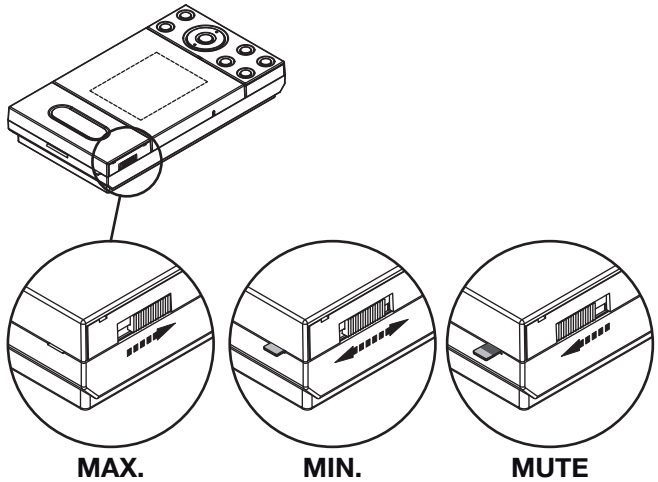


Imago video door phone has been designed by architect Trabucco and it is provided with a dedicated call loudspeaker; the ring tone volume can be adjusted on three levels (high-low-mute).
Imago is equipped with other 4 buttons, used for additional services, and with an OSD display that allows to adjust display colour, brightness and contrast using a joystick on the video door phone. During installation, it is possible to select the operation mode: hands-free or button pressed. In the first case, after receiving the call, the user must press the button Audio On to start the conversation and press again the same button to stop it. In the second case, the user must keep the button Audio On pressed for all the conversation time.

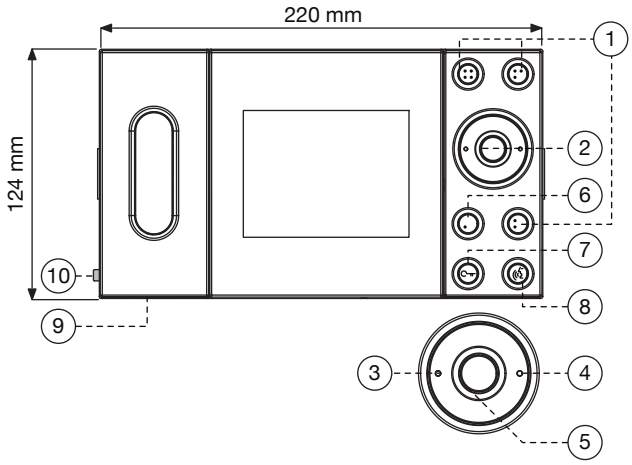
The video door phone Ref. 1707/17 is set up to a speaker capable interfacing with hearing aids by means of the "T" function.

SPECIFICATIONS

The main characteristics of the video door phone are:
- Flat 4" TFT colour video module.
- Video standard automatic selection according to the input signal frequency
- Call volume adjustment and Mute function. With "Mute" function active (ring tone excluded), a red mechanical indicator appears.



When volume is set to "MUTE" the video door phone will not ring but the video module will light up.



1. **AUXILIARY BUTTONS**: these can be used for specifi c functions according to the system.
2. **JOYSTICK:** this is used to adjust the video parameters.
3. The left joystick button is used to decrease video parameters.
4. The right joystick button is used to increase video parameters.
5. **SELECT**: This button is used to select the video parameter to be adjusted.
6. **AUTO-ON BUTTON**
7. **DOOR OPENER BUTTON**: This turns green when the video door phone is on. It turns red to indicate that the door is open and blinks red to indicate that the automatic door opening function is on.
8. **AUDIO BUTTON**: This turns green when the video door phone is on. Press the button to activate the audio signal; the button turns on in orange.
9. **CALL VOLUME/MUTE CONTROL**
10. **MUTE INDICATOR**

TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 26Vdc**
Consumption:		**0,36A max**
CCIR version	Vertical frequency:	**50Hz ± 2Hz**
	Horizontal frequency:	**15625 ± 300Hz**
EIA version	Vertical frequency:	**60Hz ± 2Hz**
	Horizontal frequency:	**15734 ± 300Hz**
Video signal:		**1Vpp ± 10%**
Kinescope:		**4" TFT (with OSD)**
Video impedance:		**>10KW**
Resolution:		**960H x 234V dot**
Receiving capsule:		**45 Ω speaker**
OSD menu:		**Brigthness, colour and contrast**
Call ring tone max. volume:		**≥ 85 dB**
Transmitting capsule:		**electret microphone**
Button voltage:		**24 V eff. max.**
Button current:		**0.5 A eff.**
Operating temperature range:		**-5° ÷ +50°C**
Max. humidity:		**90% RH**

Video standard automatic selection according to the input signal frequency.

IMAGO HANDS-FREE COLOUR TFT 4" VIDEO DOOR PHONE Ref. 1707/1

IMAGO BRACKETS - 'FREE-HANDS' FUNCTION
CONTRAST, BRIGHTNESS, COLOUR ADJUSTMENT - INSTALLATION

IMAGO BRACKETS

The Imago video door phone is provided without fastening bracket; the bracket must be purchased separately according to the type of system being installed:

- Bracket for coax systems **Ref. 1707/90**

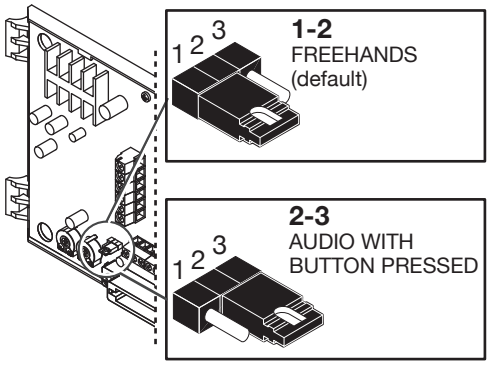
BRACKET TERMINAL BOARD FOR COAX SYSTEMS Ref. 1707/90

RD	Secondary monitor power positive
R2	Video power positive
V3	Composite video signal
V5	Video signal earth
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
R1	Video power negative
R3	Silent video on
CA	Call signal
2	Microphone signal
1	Speaker signal
6, 10	Power ground 10
9	Door opener control
X1, X2	Service button terminals (.)
Y1, Y2	Service button terminals (:)
Z1, Z2	Service button terminals (:.)
W1, W2	Service button terminals (::)
+	LED power positive (12Vdc)
AP	Door open control
AI, AO, A-	Not used

'FREE-HANDS' FUNCTION

Press the audio button after receiving the call to establish the audio conversation. You do not need to hold the button pressed during the conversation. The audio conversation is cut off when either the button is pressed again or when the video door phone is switched off.

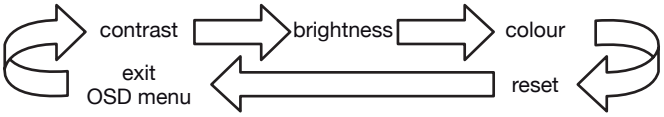
To exclude the 'free-hands' function: move jumper J4 from position 1-2 to position 2-3. Hold the button pressed to establish the audio connection.



CONTRAST, BRIGHTNESS, COLOUR ADJUSTMENT

These video parameters can be adjusted only when the vide door phone is on, after receiving a call or selecting the auto-on function.

- Use the joystick button (2) to access the setting menu.
- Press the right button (4) to increase and the left button (3) to decrease.
- Press the **SELECT** (5) to go to the next parameter in the following sequence:



The **RESET** is used to return all parameters to the initial condition. Press either the right or the left button of the joystick to reset the parameters. Press the middle button to exit the setting menu.
The changes will not be stored if the video door phone goes out before exiting setting mode.

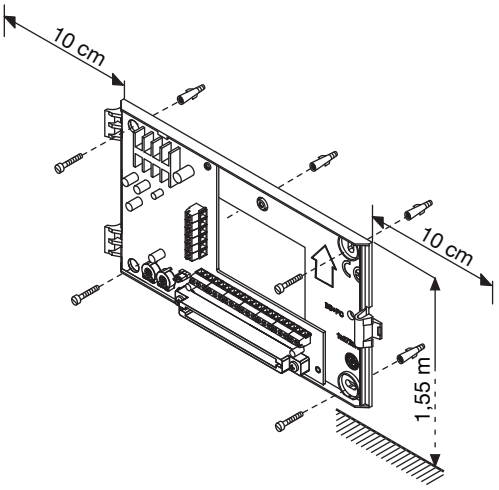
INSTALLATION

The device can be wall-mounted (on a bracket) or rested on a horizontal surface by using the specifi c tabletop stand in addition to the bracket.

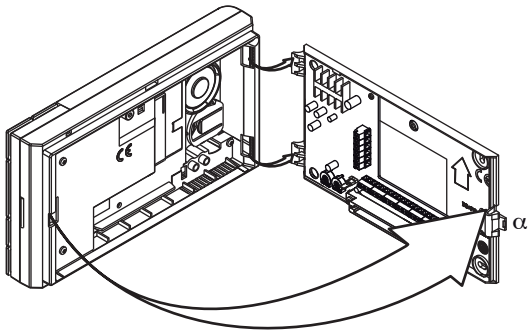
WALL-MOUNTED VERSION

The video door phone can be wall mounted (with the bracket) following the procedure below:

- Fix the wall mounting bracket with screws and screw anchors, respecting the lateral dimensions.



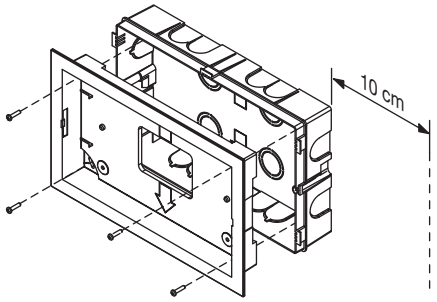
- Perform wirings.
- Hang the video door phone, as shown in the figure.
- To replace the video door phone, press the hook α and rotate clockwise.



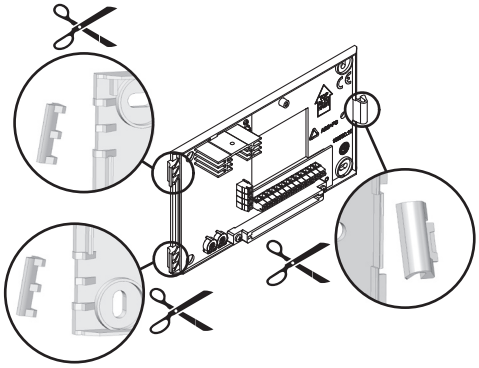
FLUSH MOUNTING MODEL

Imago video door phone can be flush mounted, reducing the projection from the wall to few millimetres. For this installation, buy the suitable flush mounting box Ref. 1707/60 and follow the procedure below:

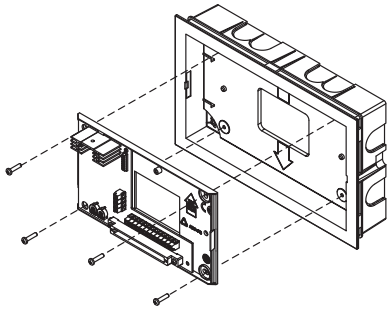
- Install the flush mounting box, respecting the lateral dimensions, at a height of about 1,55m from the floor.
- After the wall has been painted, fix the frame to the flush mounting box, using the 4 2,9 x 13 mm fixing screws.



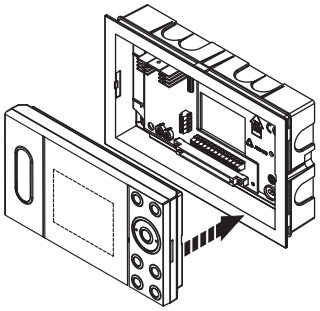
- Cut the three fixing points of the bracket using the side cutters.



- Fix the bracket to the frame using the 4 2,9 x 10 mm screws.



- Perform wirings.
- Mount the monitor, inserting it into the flush mounting box frame.



In order to remove the monitor from the frame, put a slotted screwdriver under the frame edge and lever it.

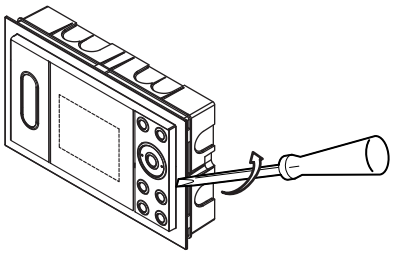
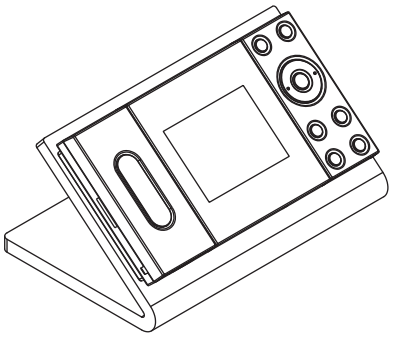
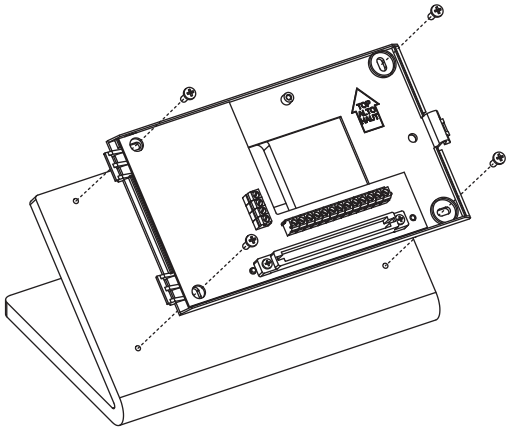


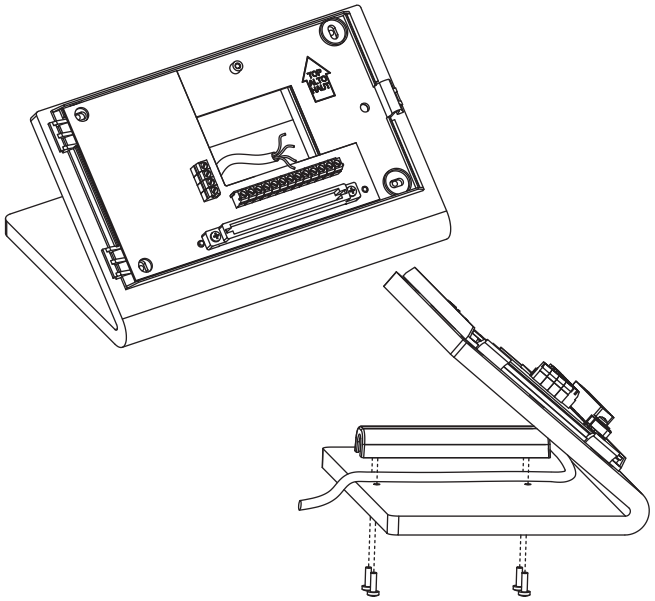
TABLE-TOP INSTALLATION MODEL

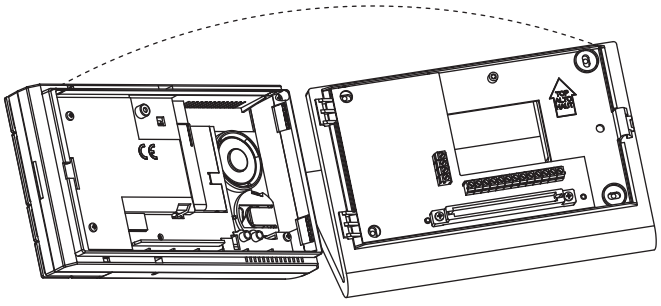
Imago video door phone can be table-top installed by using the suitable kit Ref. 1707/50, which contains: a table-top support, a wiring junction box and a cord.

For installation, follow the procedure below:
- Fix the bracket to the table-top adaptor.
- Insert in the rear hole of the support the cable coming from the wiring junction box and fix it with the provided jumper and screw.
- Connect the wiring junction box wires to the suitable terminal pins of the bracket
- Insert the video door phone on the bracket.
- Mount the feet on the bottom side of the support.
- Connect the system wires to the respective terminal pins of the wiring junction box.
- Close the wiring junction box.

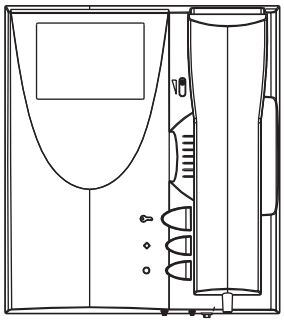








ARCO BLACK AND WHITE VIDEO DOOR PHONE Ref. 1715/1



Arco offers the most modern technology applied to picture display and the best quality/price ratio.
This video door phone is suitable for any new architectural environment and can also be used to replace the old models Artico and Sentry+.
Arco can be surface mounted, without masonry work needed for flush mounting installation, and is provided with a flat 4"screen, which reduces its projection from the wall.

The following version are available:

CCIR version (50Hz)	**Ref. 1715/1**
EIA version (60Hz)	**Ref. 1715/18**

A suitable camera must be fi tted in the door unit according to the transmission standard employed.

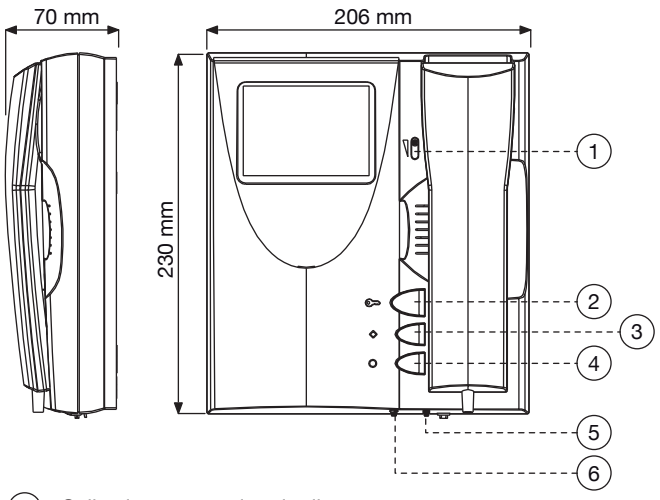
The video door phone Ref. 1715/17 is set up to a speaker capable interfacing with hearing aids by means of the "T" function.

SPECIFICATIONS

The main characteristics of the video door phone are:
- Flat 4" LCD black and withe video module
- Adjustable and mutable call volume. (Mute). With "Mute" function active (ring tone excluded), a red mechanical indicator appears.

When volume is set to "MUTE" the video door phone will not ring but the video module will light up.

- Door opener button dedicated and service buttons (◇ and ◯) for activating, for example, supplementary electrical locks, staircase lights, video door phone auto-on function, etc.
- Adjustable brightness and contrast.



1. Call volume control and adjustment
2. Door opener button
3. Auxiliary button: used for special functions
4. Auxiliary button: used for special functions
5. Brightness adjustment control
6. Contrast adjustment control

TECNICAL FEATURES

Power voltage:		**16 ÷ 18,5Vdc**
Consumption:	Working:	**0,6A max**
	Stand-by:	**0A (coax)**
		5mA (5 wire)
Working power:		**10W max**
CCIR Version	Vertical frequency:	**50Hz ± 2Hz**
	Horizontal frequency:	**15625 ± 300Hz**
EIA version	Vertical frequency:	**60Hz ± 2Hz**
	Horizontal frequency:	**15734 ± 300Hz**
Video signal:		**1Vpp 75Ω nominal**
		1Vpp -6dB minimum
Kinescope:		**4" FLAT 20mm neck**
Phosphorous:		**P45**
Geometric distorsion:		**vertical 5% max**
		horizontal 5% max
		barrel 10% max
Brightness:		**>100cd/m2 max. setting**
X-rays:		**none**
Switch-on delay:		**7 sec. max**
Transmitting capsule:		**electret microphone**
Receiving capsule:		**speaker 45Ω**
Button voltage:		**24Veff. max**
Button current:		**1,2Aeff**
Operating temperature range:		**-5° ÷ +50°C**
Max. humidity:		**90% UR**

ARCO BLACK AND WHITE VIDEO DOOR PHONE Ref. 1715/1

ARCO BRACKETS - RETROFIT INSTALLATION

ARCO BRACKETS

Arco video door phone is provided without fastening bracket which must be purchased separately according to the system being installed:

- Bracket for 5-wire systems (without coax) **Ref. 1705/955**
- Bracket for coax systems **Ref. 1705/90**

BRACKET TERMINAL BOARD FOR 5-WIRE SYSTEMS Ref. 1705/955

2	Voice for door phone intercom
1	Earth for door phone intercom
R3	Silent video on
B	Differential video signal positive
A	Differential video signal negative
R5	--
CA, CA	Call signal
R2	Video door phone power positive
R1, R1	Video door phone power negative
Y2, Y1	Service button ◇ terminals
X2, X1	Service button ○ terminals
RT	Secondary monitor power positive
R4	--

BRACKET TERMINAL BOARD FOR COAX SYSTEMS Ref. 1705/90

2	Microphone signal
1	Speaker signal
CA	Call signal
R2	Video power positive
V3	Composite video signal
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
V5	Video signal earth
R3	Silent video on
6, 10	Power ground
R1	Video power negative
Y2, Y1	Service button ◇ terminals
X2, X1	Service button ○ terminals
9	Door opener control
RT	Secondary monitor power positive

RETROFIT

In a coaxial and 5 wire video door phone system, it is possible to replace video door phone Mod. Sentry+ with video door phones Mod. Arco. To simplify this replacement and reduce its cost, it is possible to buy the bracket alone without the electronic circuit Ref. 1705/100.
Also when needing to replace only the bracket of a Sentry+ video door phone it is possible to buy the bracket of the Artico video door phone and fi t it with plastic support Ref. 1704/102.
The replacement operations are described in chapter 1F “Instructions for interchangeability of Urmet devices” of the Door phone – Video door phone installation diagram manual.

The videophone Arco, moreover, can replace the Arctico model without change the bracket.

INSTALLATION

- Prepare the conduit so that it terminates at the infeed hole provided.
- Use 4 plugs to fasten the bracket to the wall at the height from the floor indicated.
- Connect the wires to the specific terminals.
- Check that the switch on the rear side is in A position if used in analogue systems or in B position if used in digital systems.
- Extract the fastening hook α.
- Insert the video door phone in the bracket.
- Fasten the video door phone in place pushing hook A inwards.

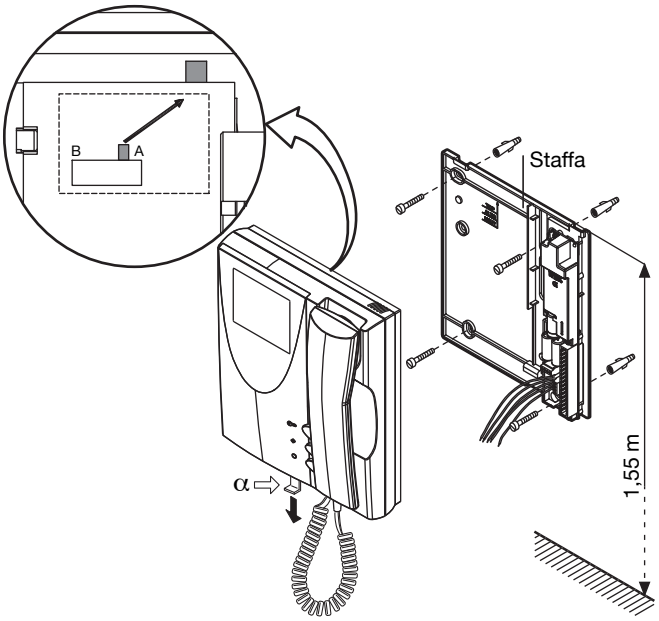
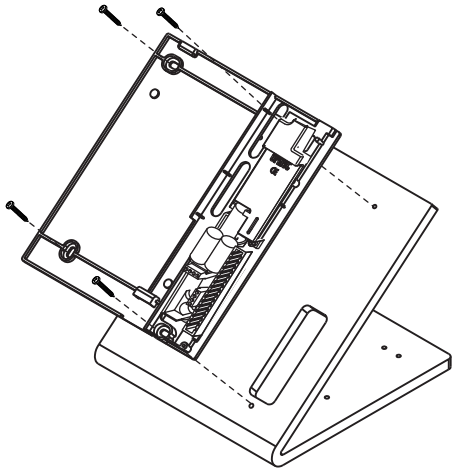


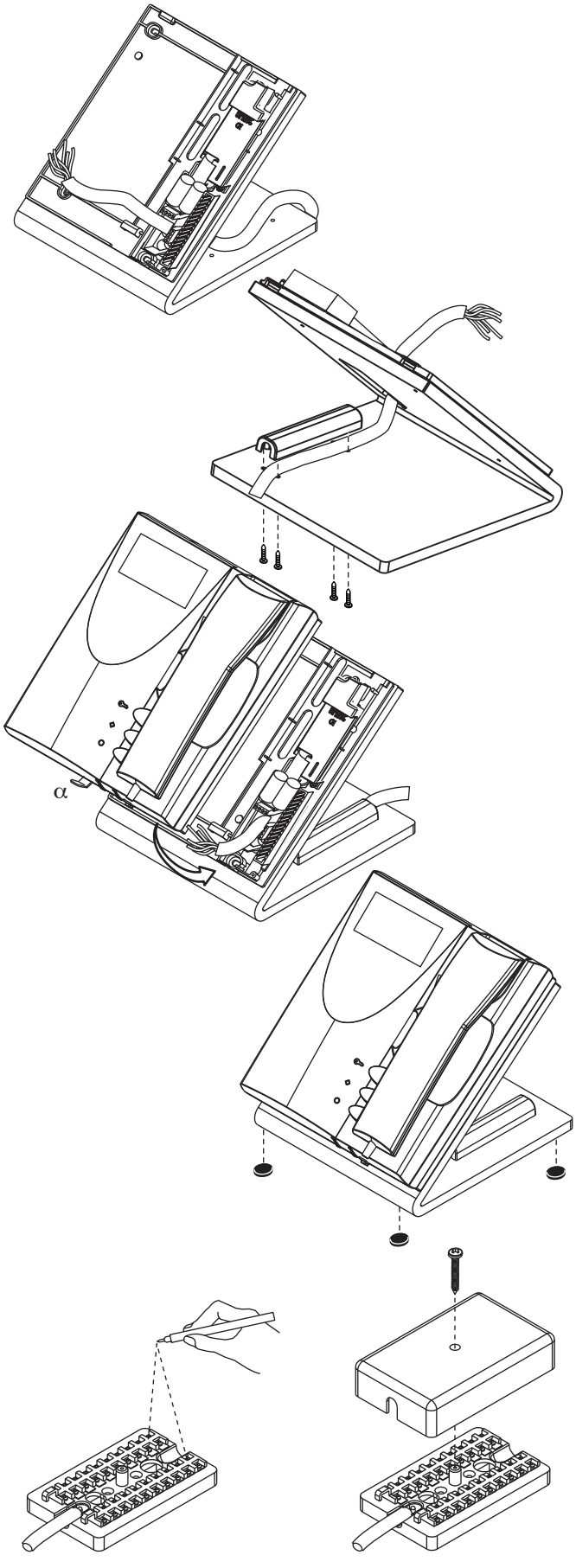
TABLE-TOP INSTALLATION MODEL

Arco video door phone can be table-top installed by using the suitable kit Ref. 1707/50, which contains: a table-top support, a wiring junction box and a cord.

For installation, follow the procedure below:

- Fix the bracket to the table-top adaptor.
- Insert in the rear hole of the support the cable coming from the wiring junction box and fix it with the provided jumper and screws.
- Connect the wiring junction box wires to the suitable terminal pins of the bracket.
- Pull out the stop hook α from the video door phone.
- Insert the video door phone in the bracket and lock it by pushing the hook α up.
- Mount the feet on the bottom side of the support.
- Connect the system wires to the respective terminal pins of the wiring junction box.
- Close the wiring junction box.





Write down the connection references on the wiring junction box label.

Consider the following correspondence between terminals for using the table-top kit with 1715/50 brackets in 5-wire systems.

Table mountig kit Ref. 1750/50	Bracket Ref. 1705/955
R1	R1
R2	R2
V3	A
V5	B
CA/RZ	CA
R3	G
X1	X1
X2	X2
Y1	Y1
Y2	Y2
Z1	Z1
Z2	Z2
2	2

IMPORTANT: Two table-top video door phones cannot be connected in parallel.

ACCESSORIES

Arco video door phones, can be equipped with the following devices (described in the "*Apartment station accessories*" section).

- Three-tone gong **Ref. 1132/54**
- Additional outdoor ringer **Ref. 9854/40**
- Additional electronic call ringer **Ref. 9854/41**
- Additional three-tone ringer **Ref. 9854/42**
- 12Vac door phone electronic buzzer **Ref. 9854/52**